

TC-WA7ESA/WE505/WE605S/ WE705S/WR550Z

SERVICE MANUAL



Photo : TC-WE705S

US Model
TC-WA7ESA/WE605S/WR550Z


Canadian Model
TC-WA7ESA/WE605S

AEP Model
TC-WE505/WE705S

UK Model
TC-WE505

E Model
Australian Model
Chinese Model
TC-WE605S

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Model Name Using Similar Mechanism		TC-WA7ES/WR565S/WE665S
Tape Transport Mechanism Type	DECK-A	TC-WE605S/WR550Z : TCM-190RA12CL
		TC-WE505 : TCM-190RA14CL
		TC-WA7ESA : TCM-190RA17CL
		TC-WE705S : TCM-190RA18C
	DECK-B	TC-WA7ESA/WE705S : TCM-190RB11C
		TC-WE505/WE605S/WR550Z : TCM-190RB12CL

SPECIFICATIONS

System

Recording system

4-track 2-channel stereo

Fast-winding time (approx.)

90 sec. (with Sony C-60 cassette)

High-speed fast-winding time (approx.) (TC-WA7ESA and TC-WE705S only)

45 sec. (with Sony C-60 cassette)

Bias

AC bias

Signal-to-noise ratio (at peak level and weighted with Dolby NR off)

Type I tape, Sony Type I (NORMAL): 55 dB

Type II tape, Sony Type II (HIGH): 57 dB

Type IV tape, Sony Type IV (METAL): 58 dB

S/N ratio improvement (approximate values)

With Dolby B NR on: 5 dB at 1 kHz, 10 dB at 5 kHz

With Dolby C NR on: 15 dB at 500 Hz, 20 dB at 1 kHz

With Dolby S NR on (unavailable on the TC-WE505):

10 dB at 100 Hz, 24 dB at 1 kHz

Harmonic distortion

0.4% (with Type I tape, Sony Type I (NORMAL):

160 nWb/m 315 Hz, 3rd H.D.)

1.8% (with Type IV tape, Sony Type IV (METAL):

250 nWb/m 315 Hz, 3rd H.D.)

Frequency response (Dolby NR off)

Tape type

Type I tape, Sony Type I (NORMAL) 30 - 16,000 Hz (± 3 dB, IEC),
20 - 17,000 Hz (± 6 dB)

Type II tape, Sony Type II (HIGH) 30 - 17,000 Hz (± 3 dB, IEC),
20 - 18,000 Hz (± 6 dB)

Type IV tape, Sony Type IV (METAL) 30 - 19,000 Hz (± 3 dB, IEC),
20 - 20,000 Hz (± 6 dB),
30 - 13,000 Hz (± 3 dB, -4 dB recording)

- Continued on page 2 -



STEREO CASSETTE DECK
SONY®

Wow and flutter

TC-WA7ESA/WE705S/WE605S/ WR550Z	TC-WE505
±0.13% W. Peak (IEC)	±0.14% W. Peak (IEC)
0.07% W. RMS (NAB)	0.08% W. RMS (NAB)
±0.18% W. Peak (DIN)	±0.19% W. Peak (DIN)

Variable pitch range (approx.) (TC-WE705S and TC-WE505 only)
-30 to +30%

Inputs

Line inputs (phono jacks)
Sensitivity : 0.16 V
Input impedance : 47 kilohms

Outputs

Line outputs (phono jacks)
Rated output level : 0.5 V at a load impedance of
47 kilohms
Load impedance : Over 10 kilohms

Headphones (stereo phone jack)
Output level : 0.25 mW at a load impedance of
32 ohms

General

Power requirements

Where purchased	Power requirements
US, Canadian, Panama model	120V AC, 60Hz
AEP, UK, German, Malaysia, Singapore, Chinese model	220 - 230V AC, 50/60Hz
Australian model	240V AC, 50/60Hz
E model	120/220/240V AC, 50/60Hz

Power consumption
26W

Dimensions (approx) (w/h/d)

UK, and Australian model :
430 × 120 × 303 mm (w/h/d)
(17 × 4 3/4 × 12 inches)

EXCEPT UK, Australian model :
430 × 120 × 290 mm (w/h/d)
(17 × 4 3/4 × 11 1/2 inches)

including projecting parts and controls

Mass (approx.)
4.2 kg (9 lbs 5 oz)

Supplied accessories

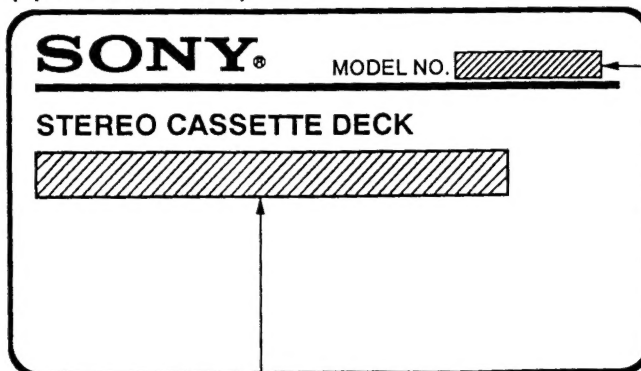
Audio connecting cords (2 phono plugs - 2 phono
plugs) (2)
Remote commander (RM-J910) (1) :
(WA7ESA : Canadian model)

Design and specifications are subject to change without
notice.

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MODEL IDENTIFICATION (Specification Label)



TC-WA7ESA
TC-WE505
TC-WE605S
TC-WE705S
TC-WR550Z

US, Canadian, Panama model : AC 120V 60Hz
Australian model : AC 240V-50/60Hz
AEP, UK, Malaysia, Singapore,
Chinese, German model : AC 220-230V-50/60Hz
E model : AC120/220/240V-50/60Hz

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

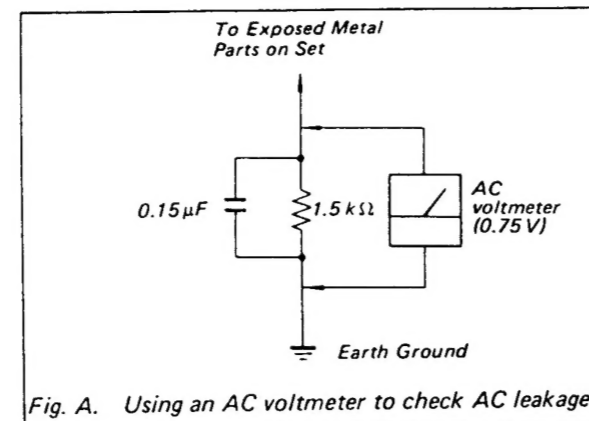
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

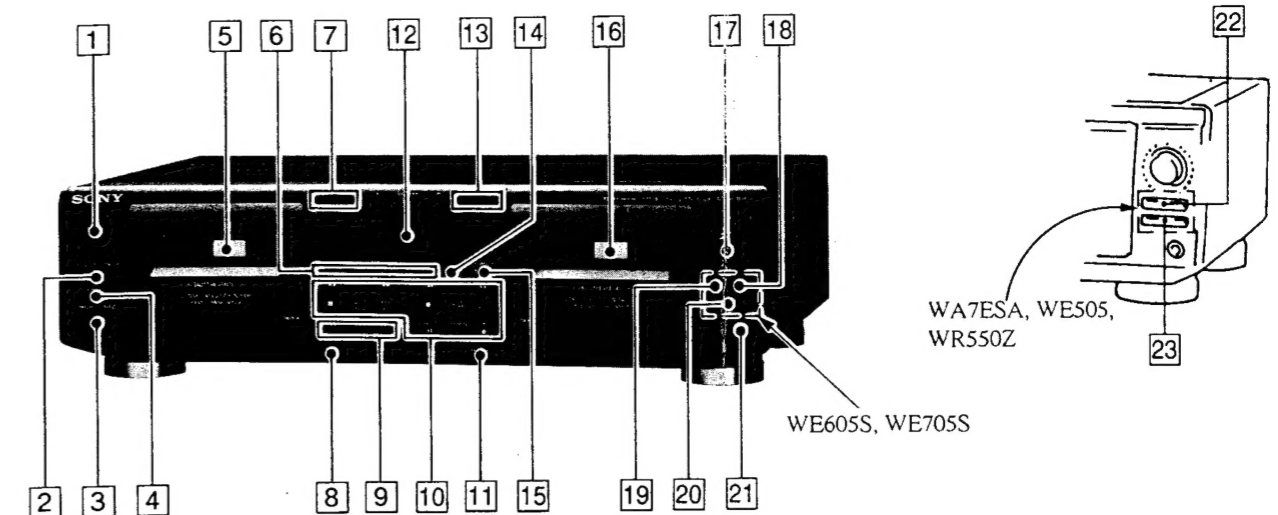


SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

1-1. IDENTIFYING THE PARTS



FRONT PANEL

- | | |
|--|---------------------------------------|
| 1 POWER switch | 11 (eject) button (deck-B) |
| 2 DIRECTION MODE switch | 12 Display panel |
| 3 PITCH control | 13 COUNTER buttons (deck-B) |
| 4 PITCH control ON/OFF switch | RESET button |
| 5 Deck-A | MEMORY button |
| 6 RMS™ operation buttons | 14 AUTO CAL button |
| RMS/START buttons | 15 SYNCHRO DUBBING buttons |
| SET buttons | HIGH button |
| CHECK buttons | NORMAL button |
| DISPLAY buttons | 16 Deck-B |
| 7 COUNTER buttons (deck-A) | 17 AUTO REC (recording) LEVEL control |
| RESET button | 18 ARL button |
| MEMORY button | 19 FADER button |
| 8 (eject) button (deck-A) | 20 SYNCHRO button |
| 9 DOLBY NR switches | 21 PHONES jack (stereo phone jack) |
| OFF/ON/FILTER ON switch | 22 ARL button |
| B/C/S switch | 23 FADER button |
| 10 Tape operation buttons | |
| ◀ (leftward fastwinding)/AMS™/RMS™ - button | |
| ▶ (rightward fastwinding)/AMS™/RMS™ + button | |
| ■ (stop)/(RMS™) CLEAR button | |
| ◀ (reverse play)/(RMS™) BACK button | |
| ▶ (forward play)/(RMS™) FRONT button | |
| PAUSE button | |
| ○ REC MUTE (record muting) button | |
| ● REC (record muting) button | |
- (WE60SS, WE70SS)
 (WA7ESA, WE50S, WR550Z)
 ™ Random Music Sensor
 ™ Automatic Music Sensor

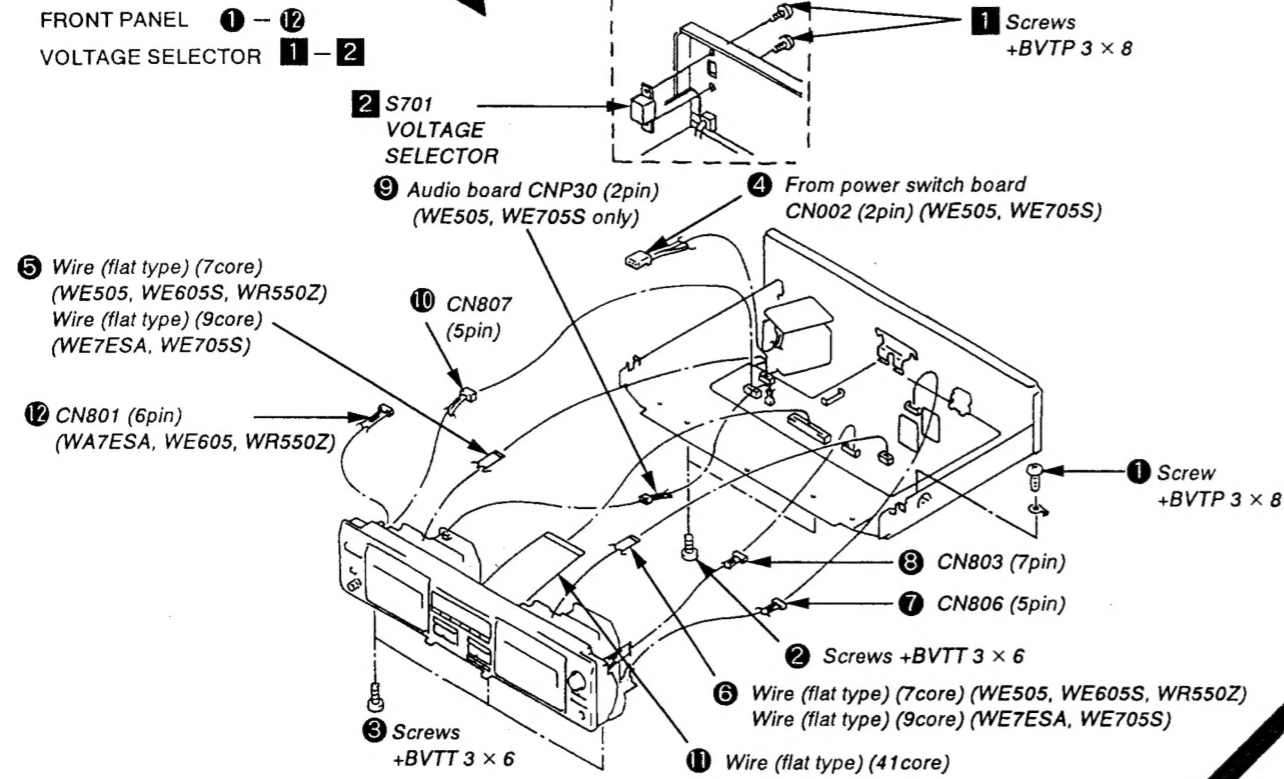
SECTION 2 DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

CASE

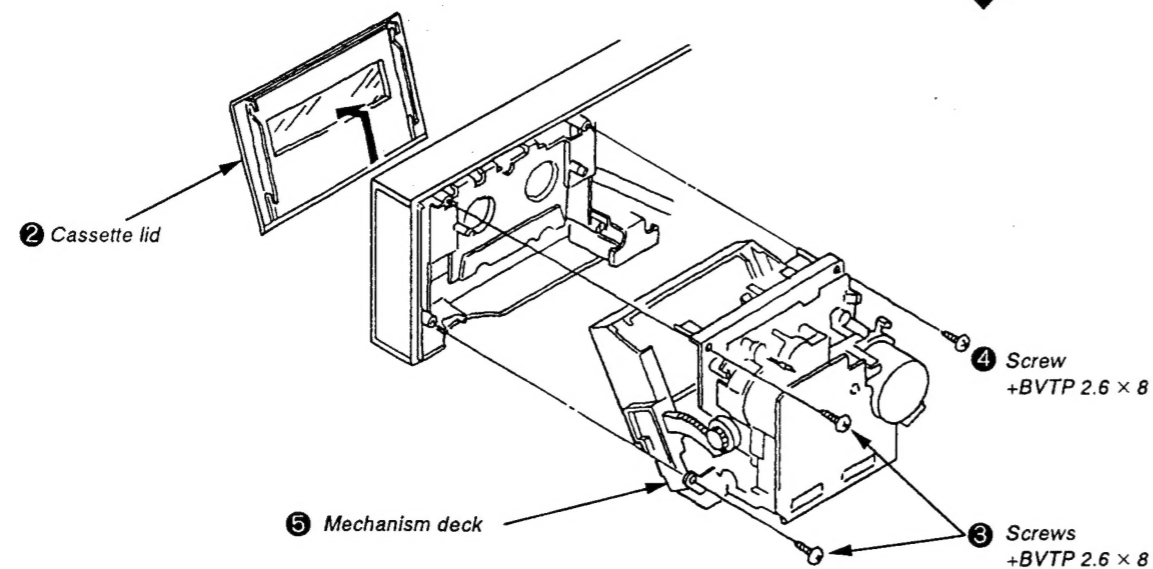
Unscrew the four case attachment screws M3 × 8 and remove the case.

2-1. FRONT PANEL REMOVAL

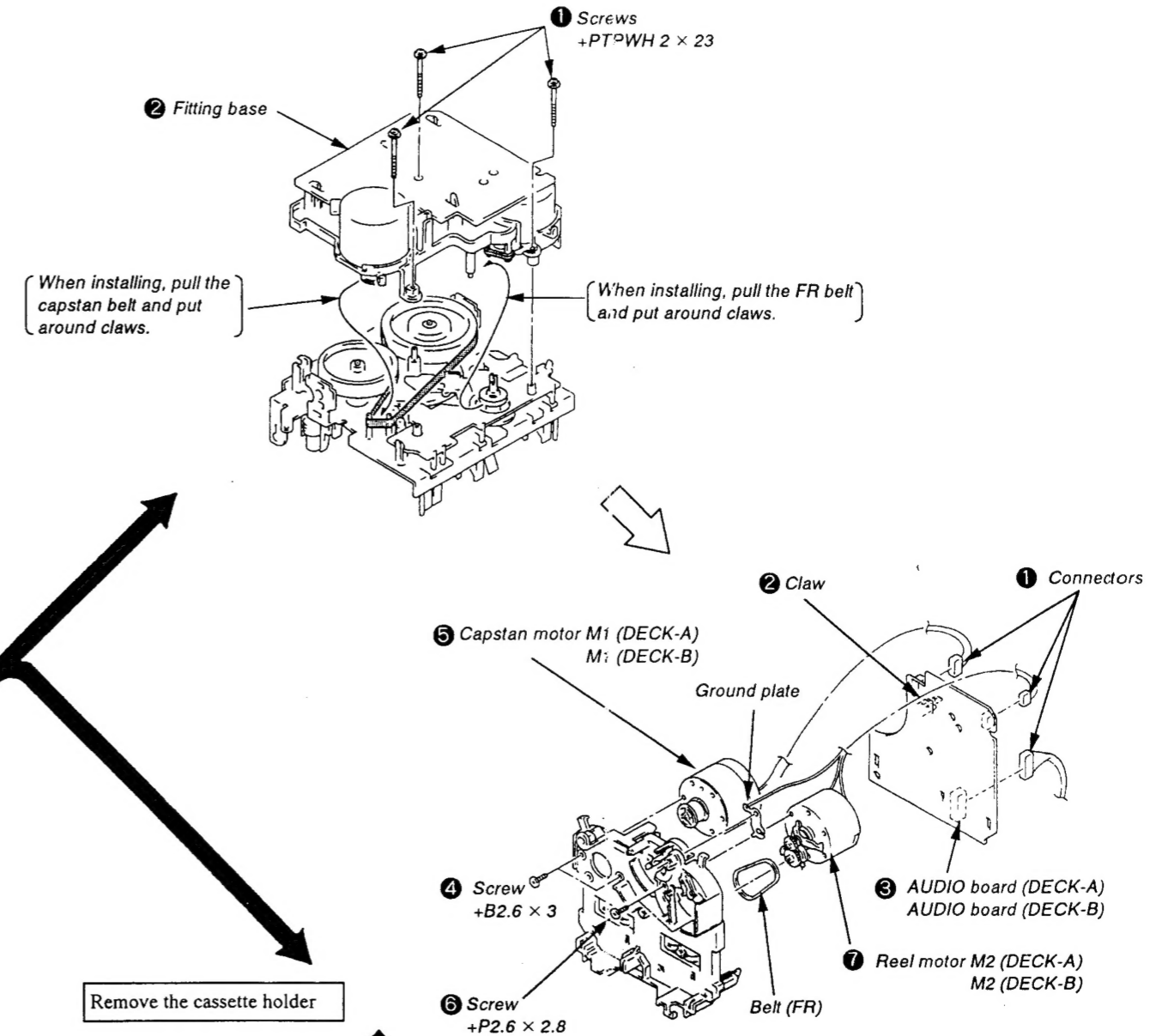


2-2. MECHANISM DECK

1 Press the EJECT button.

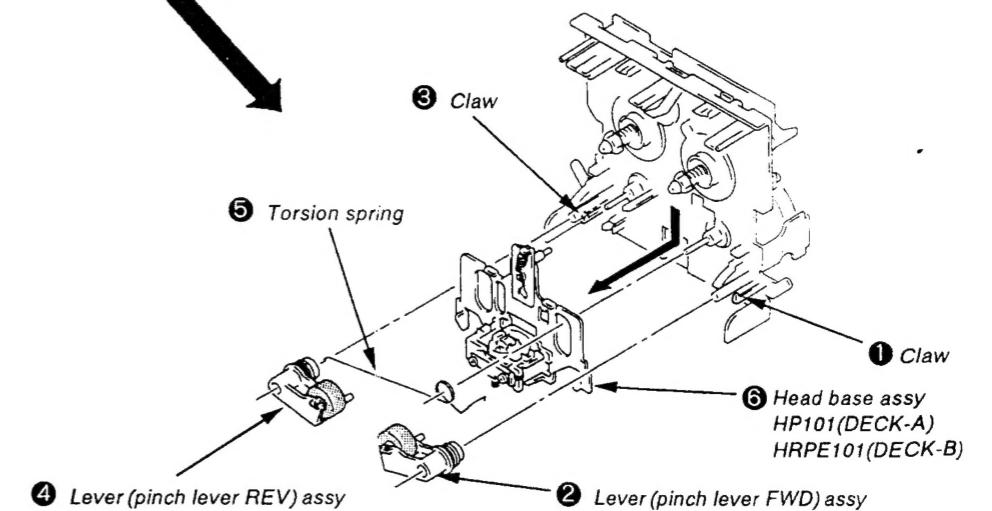


2-3. CAPSTAN MOTOR, REEL MOTOR



Remove the cassette holder

2-4. HEAD, PINCH ROLLER



SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback/erase head	pinch roller
rubber belts	capstan
idlers	
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustment.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

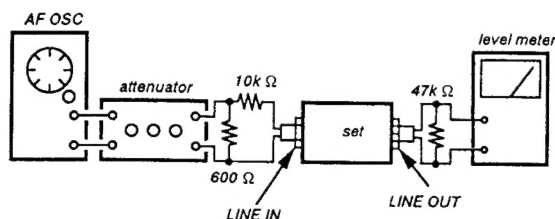
Torque	Torque meter	Meter reading
Forward	CQ-102C	30 to 65g • cm (0.42 to 0.9 oz • inch)
Forward back tension	CQ-102C	DECK-A : 1 to 6g • cm (0.014 to 0.083 oz • inch) DECK-B : 2 to 9g • cm (0.03 to 0.12 oz • inch)
Reverse	CQ-102RC	30 to 65g • cm (0.42 to 0.9 oz • inch)
Reverse back tension	CQ-102RC	1 to 6g • cm (0.014 to 0.083 oz • inch)
FF/REW	CQ-201B	70 to 120g • cm (0.98 to 1.66 oz • inch)

3-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

1. The adjustment should be performed in the publication.
(Be sure to make playback adjustment at first.)
2. The adjustments and measurement should be performed for both L-CH and R-CH.
 - Switch position
DOLBY NR switch : OFF
DIRECTION MODE switch : \rightleftharpoons
 - Standard record position :
Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

— Record Mode —



Standard Input Level

Input terminal	LINE IN
source impedance	10k Ω
input signal level	0.5V (- 3.8dB)

Standard Output Level

Output terminal	LINE OUT
load impedance	47k Ω
output signal level	0.5V (- 3.8dB)

Test Tape

Tape	Contents	Use
P-4-A100	10kHz, - 10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

$$0\text{dB} = 0.775\text{V}$$

Test Mode

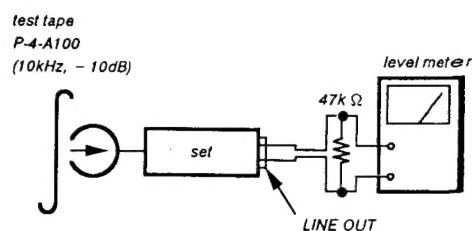
1. Insert a short-circuit plug into TP801 (2P) and turn ON the power switch.
At first, all the fluorescent tubes light up, then the system returns to normal display. (However, "0,00" is not displayed on the counter.)
2. To release the test mode, remove the short plug and turn off the power switch.
3. Remove the short plug after completion of adjustment.

Record/Playback Head Azimuth Adjustment

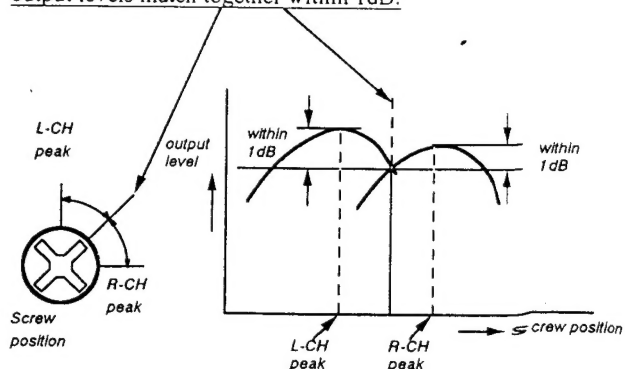
DECK-A **DECK-B**

Procedure :

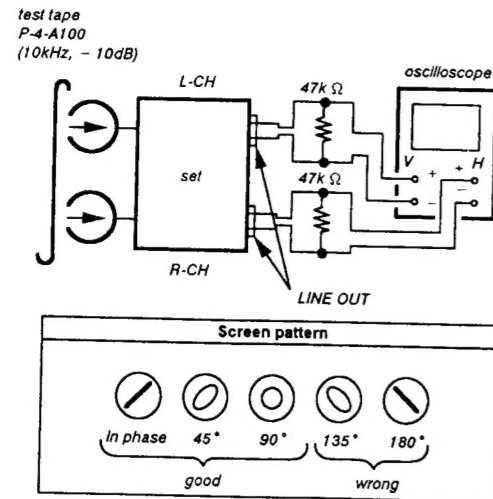
1. Forward playback Mode



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.

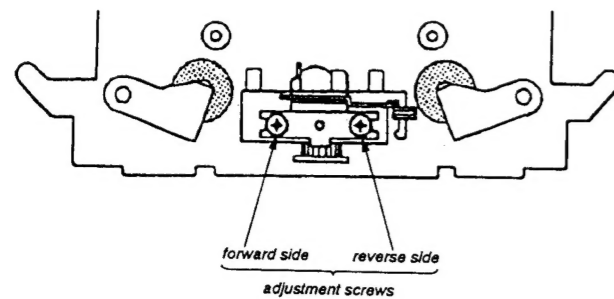


3. Playback Mode



4. Change the reverse playback mode and repeat the steps 1 to 3.
5. After the adjustment, lock the adjustment screws with suitable locking compound.

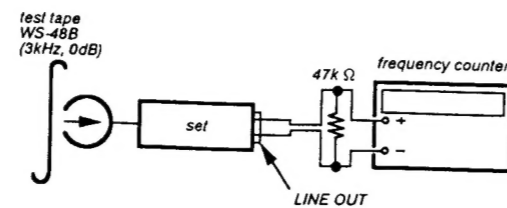
Adjustment Location : — record/playback head —



Tape Speed Adjustment **DECK-A** **DECK-B**

Procedure :

— Forward Playback Mode —



(High speed adjustment)

1. Set to test mode. (Refer to page 7)
2. Set to FWD playback mode.
3. Keep on pressing the HIGH SPEED DUBBING switch.
4. Adjust RV72 so that the frequency counter reading becomes $6,000 \pm 20\text{Hz}$.
5. Release test mode after adjustment is completed.

(Normal speed adjustment)

1. Set to FWD playback mode.
2. Adjust RV71 so that the frequency counter reading becomes $3,000 \pm 10\text{Hz}$.

(Pitch control adjustment) (TC-WE505/WE705S only)

1. Turn ON the PITCH CONTROL switch.
2. Set RV902 to mechanical center.
3. Set to FWD playback mode.
4. Adjust RV601 so that the frequency counter reading becomes $3,000 \pm 10\text{Hz}$.

Frequency difference between the beginning and the end of the tape should be within 3%.

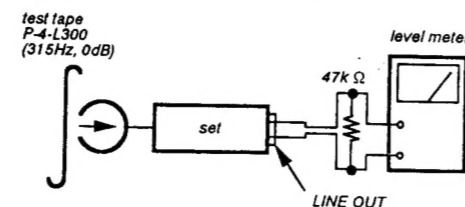
Frequency difference between the deck A and deck B the beginning of the tape should be within 1.5%.

Adjustment Location : AUDIO board, MAIN board.
(See page 10)

Playback Level Adjustment **DECK-A** **DECK-B**

Procedure :

— Forward Playback Mode —



Adjust RV11(L-CH) and RV21(R-CH) so the level meter reading becomes the adjustment limits below.

Adjustment Value :

LINE OUT level : $-7.7 \pm 0.5\text{dB}$ (0.301 to 0.338V)

Level difference between channels : within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

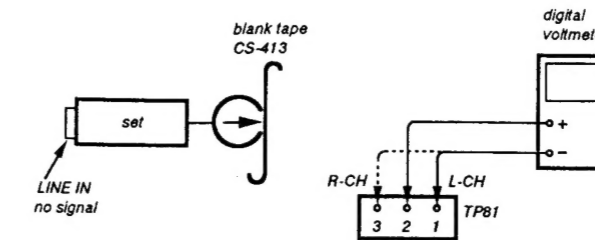
Adjustment Location : AUDIO board. (See page 10)

Bias Consumption Current Adjustment **DECK-B**

This adjustment should be performed when replacing the head assy or the bias oscillating transformer (T81, T91).

Procedure :

< > : R-CH



1. Connect the digital voltmeter to test point TP81.
2. Set RV81(RV91) to mechanical center.
3. Set to FWD record mode.
4. Adjust T81(T91) so that the digital voltmeter reading becomes minimum.

Adjustment Value : Maximum 220mV

Adjustment Location : AUDIO board. (See page 10)

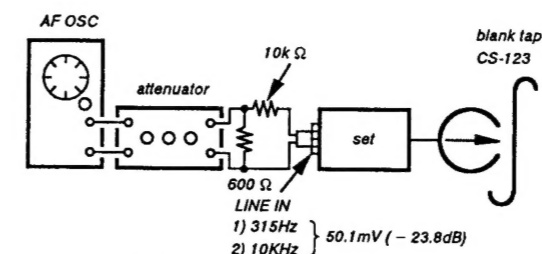
Record Bias Adjustment **DECK-B**

Setting :

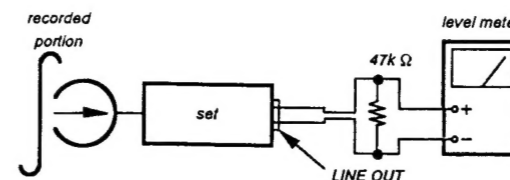
REC LEVEL control : standard record position (Refer to page 7.)

Procedure :

1. Record Mode



2. Playback Mode



Confirm that the 10kHz playback output is $0 \pm 0.5\text{dB}$ relative to the 315Hz output. If necessary, adjust RV81 (L-CH), RV91(R-CH) and repeat the steps given above.

Adjustment Location : AUDIO board. (See page 10)

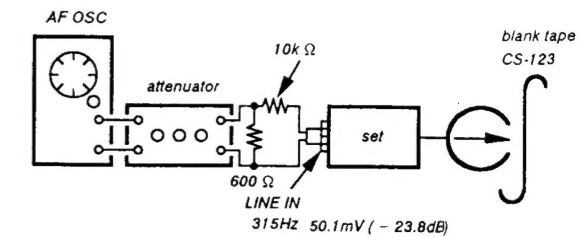
Record Level Adjustment **DECK-B**

Setting :

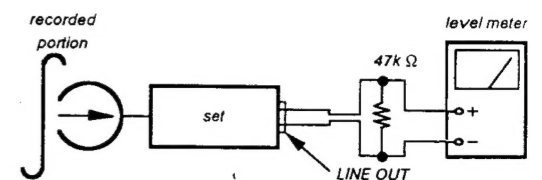
REC LEVEL control : standard record position (Refer to page 7.)

Procedure :

1. Record Mode



2. Playback Mode



Confirm playback the tape recorded become adjustment level as follows.

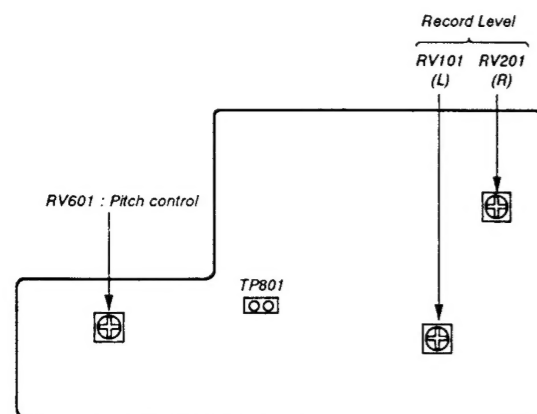
If necessary, adjust RV101(L-CH), RV201(R-CH) and repeat the steps 1 and 2.

Adjustment Value :

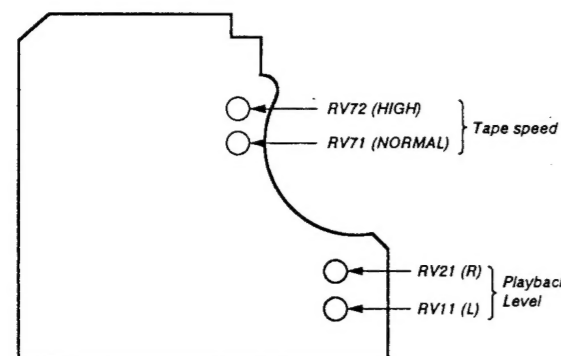
LINE OUT level : $-23.8 \pm 0.5\text{dB}$ (47.2 to 53mV)

Adjustment Location : MAIN board.
(See page 10)

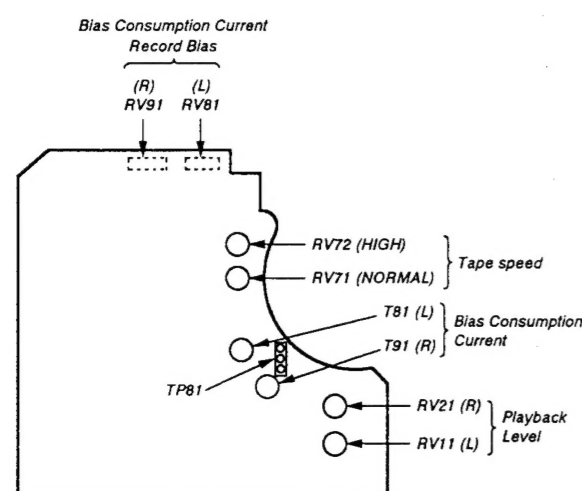
[MAIN BOARD]



**DECK-A :
[AUDIO BOARD]**



**DECK-B :
[AUDIO BOARD]**



**SECTION 4
EXPLANATION OF IC TERMINALS**

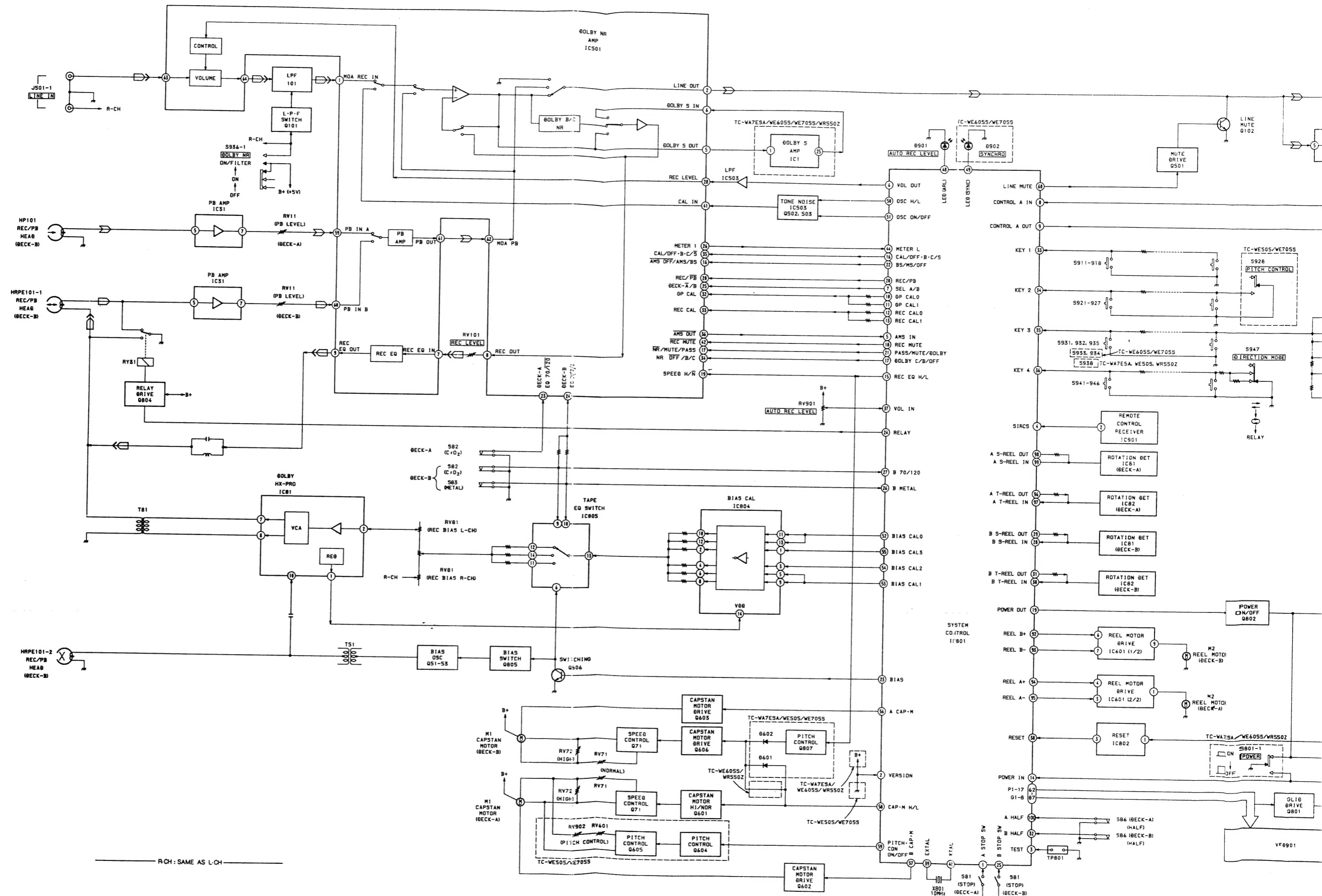
IC801 CXP8224-043Q (SYSTEM CONTROL/VFD DRIVE)

Pin No.	Pin name	I/O	Description
1	A STOP SW	I	Mechanism stop switch for deck-A. H : Stop
2	VERSION	I	Version select terminal.
3	TEST	I	Test mode select terminal. L : Test
4	SIRCS	I	Sircs signal input terminal.
5	AMS IN	I	AMS signal input terminal. L : Music present.
6	VOL OUT	O	REC level control output (PWM).
7	SEL A/B	O	Playback A/B selector. L : A, H : B
8	CONTROL A IN	I	Control A input.
9	CONTROL A OUT	O	Control A output.
10	GP CAL 0	O	GEQ CAL-0 output for auto calibration.
11	GP CAL 1	O	GEQ CAL-1 output for auto calibration.
12	REC CAL 0	O	Recording CAL-0 output for auto calibration.
13	REC COL 1	O	Recording CAL-1 output for auto calibration.
14	POWER IN	I	Power OFF Detection terminal.
15	REC EQ H/L	O	REC EQ high/normal select. L : Normal.
16	CAL/OFF, B, C/S	O	Audio Selector. H : CAL/Open : NR-OFF, B, C/L : NR-S.
17	DOLBY C/B/OFF	O	Dolby NR Selector. H : C/Open : B/L : OFF.
18	REC MUTE	O	Recording mute output. L : Mute ON, H : Mute OFF.
19	POWER OUT	O	Power hold output.
20	REC/PB	O	Dolby NR mode selector. L : Playback, H : Record.
21	PASS/MUTE/DOLBY	O	Audio selector. L : Dolby/Open : Mute/H : Pass.
22	BS/AMS/OFF	O	AMS amp selector. L : OFF/Open : AMS/H : OFF.
23	BIAS	O	Bias ON/OFF output. L : OFF, H : ON.
24	RELAY	O	Relay record/playback selector. L : Record.
25	B STOP SW	I	Mechanism stop switch for deck-B.
26	B METAL	I	Deck-B metal tape detection.
27	B 70/120	I	70/120 μ tape selector (deck-B). L : with claw.
28	B S-REEL IN	I	Supply reel rotation detection at deck-B.
29	B S-REEL OUT	O	Supply reel rotation detection at deck-B.
30	B T-REEL IN	I	Take-up reel rotation detection at deck-B.
31	B T-REEL OUT	O	Take-up reel rotation detection at deck-B.
32	B-HALF	I	Half pawl input at deck-B. (A/B converter)
33	KEY 1	I	KEY 1 input (A/D converter).
34	KEY 2	I	KEY 2 input (A/D converter).
35	KEY 3	I	KEY 3 input (A/D converter).
36	KEY 4	I	KEY 4 input (A/D converter).
37	VOL IN	I	Record volume input. (A/D converter)
38	RESET	I	System reset input terminal.
39	EXTAL	I	System clock oscillator input. (10.0MHz)
40	EXTAL	O	System clock oscillator output. (10.0MHz)

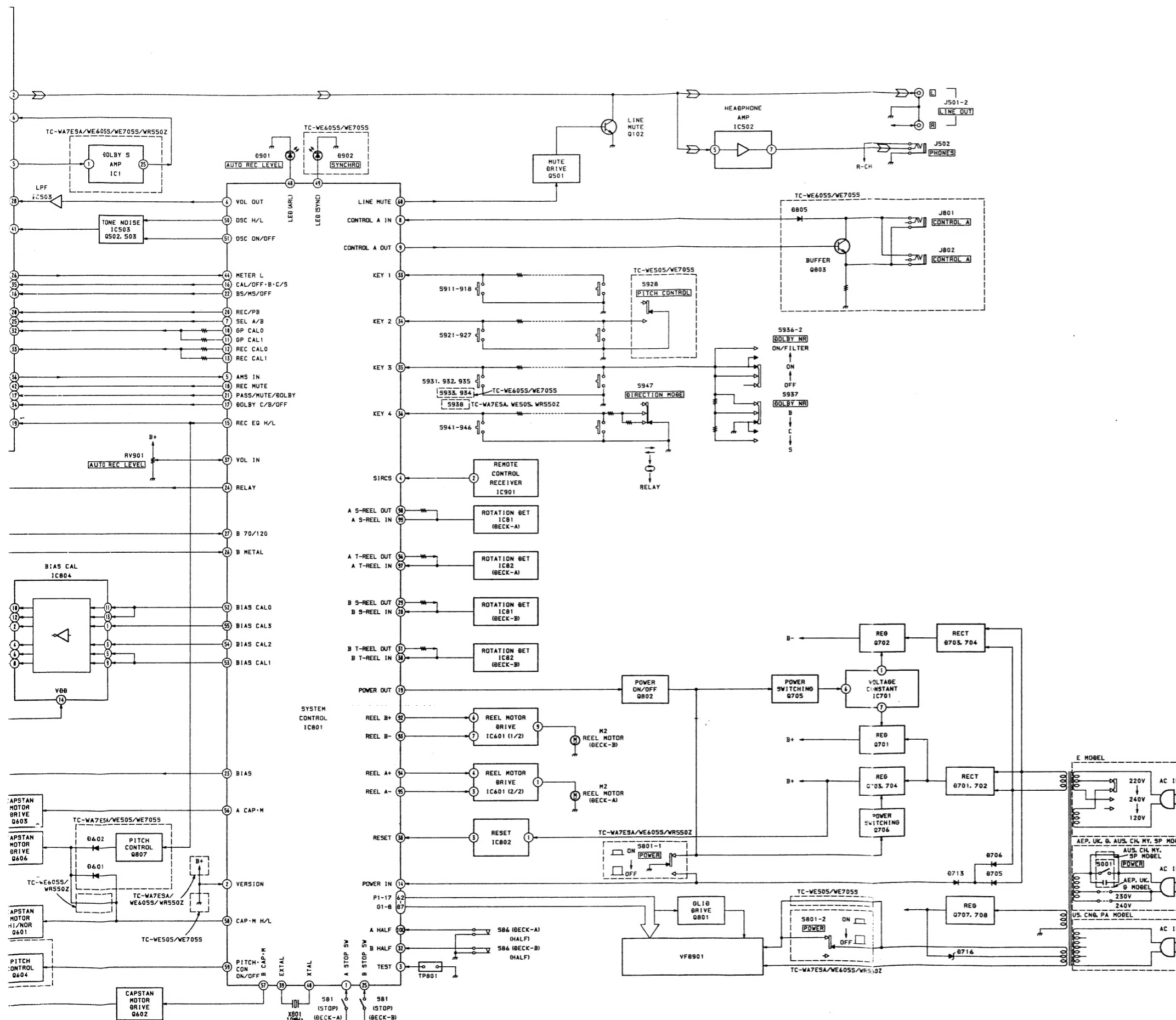
Pin No.	Pin name	I/O	Description
41	Vss	—	Ground.
42	TX	—	Not used. (Ground connection)
43	TEX	—	Not used. (Ground connection)
44	METER L	I	Meter L-CH input. (A/D converter)
45	METER R	I	Meter R-CH input. (A/D converter)
46	AVREF	I	Reference voltage input for A/D converter.
47	AVss	—	Ground for A/D converter.
48	LED (ARL)	O	ARL LED ON/OFF driver. H : ON.
49	LED (SYNC)	O	CD synchro LED ON/OFF drive. H : ON.
50	OSC H/L	O	OSC frequency H/L selection for auto calibration.
51	OSC ON/OFF	O	OSC ON/OFF output for auto calibration.
52	BIAS CAL 0	O	EQ bias CAL-0 output for auto calibration.
53	BIAS CAL 1	O	EQ bias CAL-1 output for auto calibration.
54	BIAS CAL 2	O	EQ bias CAL-2 output for auto calibration.
55	BIAS CAL 3	O	EQ bias CAL-3 output for auto calibration.
56	A CAP. M	O	Capastan motor ON/OFF control at deck-A. H : ON.
57	B CAP. M	O	Capastan motor ON/OFF control at deck-B. H : ON.
58	CAP. M H/L	O	Capastan motor high/normal selector. L : High.
59	PITCH. CON ON/OFF	O	Pitch control ON/OFF. H : ON.
60	LINE MUTE	O	Line mute ON/OFF output. L : Mute.
61 – 77	P17 – P1	O	VFD segment drive.
78 – 85	G1 – G8	O	VFD grid drive.
86	G6, G7	O	
87	G7, G8	O	
88	VFDP	—	VFD power. (– 28V)
89	VDD	—	Power supply. (+5V)
90	NC	—	Not used. (VDD connection)
91	Vss	—	Ground.
92	REEL B +	O	Reel motor (+) output at deck-B.
93	REEL B –	O	Reel motor (–) output at deck-B.
94	REEL A +	O	Reel motor (+) output at deck-A.
95	REEL A –	O	Reel motor (–) output at deck-A.
96	A T-REEL OUT	O	Take-up reel rotation detection at deck-A.
97	A T-REEL IN	I	Take-up reel rotation detection at deck-A.
98	A S-REEL OUT	O	Supply reel rotation detection at deck-B.
99	A S-REEL OUT	I	Supply reel rotation detection at deck-B.
100	A HALF	I	Half pawl input at deck-A. L : with claw.

SECTION 5 DIAGRAMS

5-1. BLOCK DIAGRAM



• CIRCUIT BOARDS LOCATION



AUDIO board (DEC)

LEAF SW board (DECK-A)

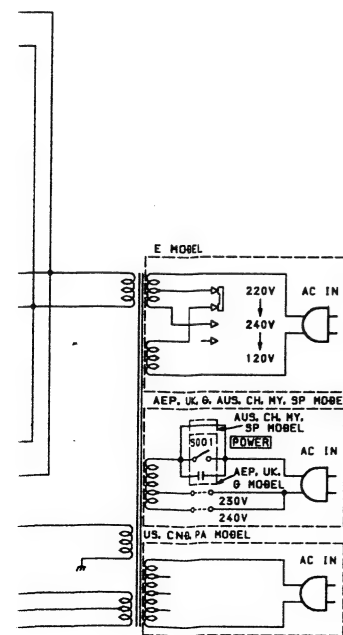
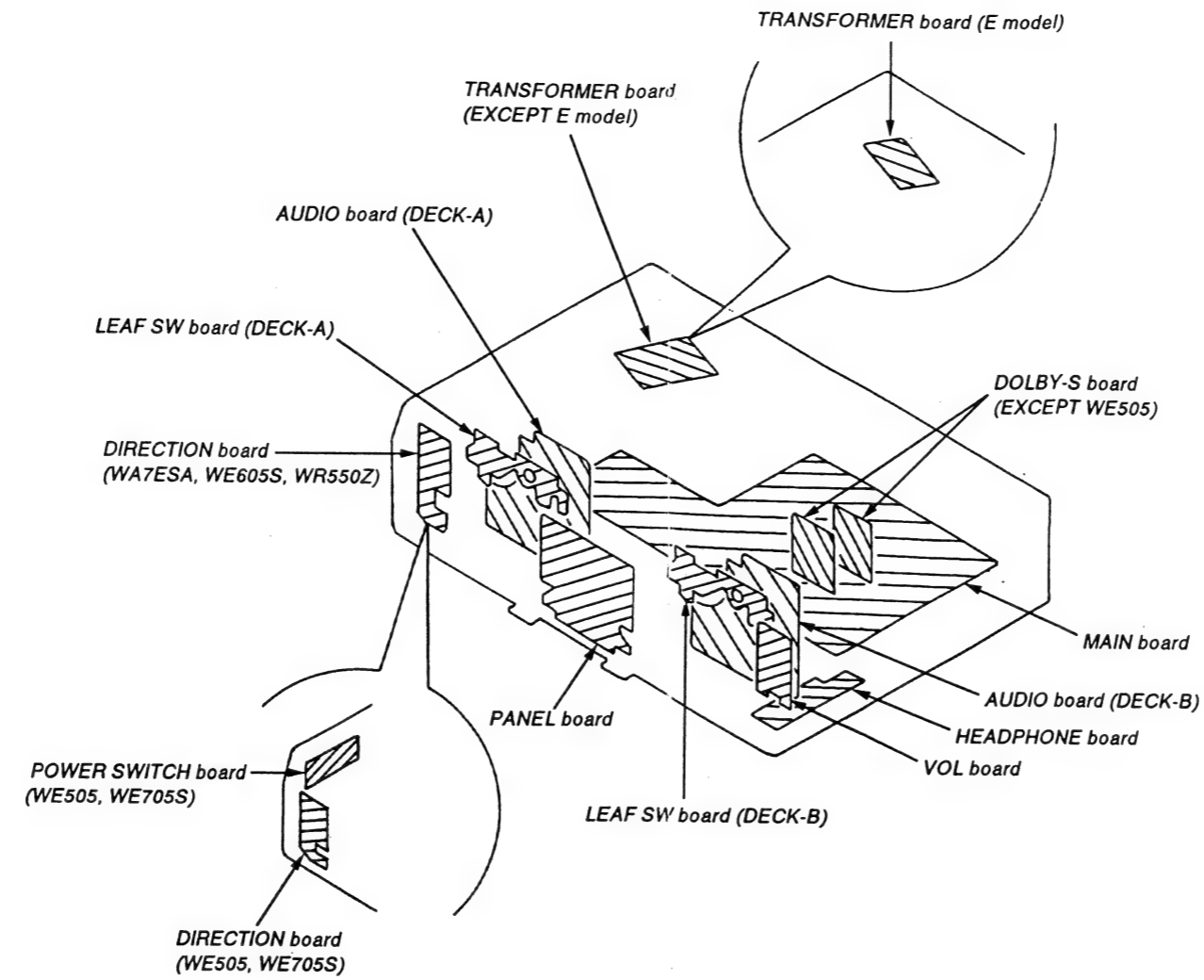
DIRECTION board (WA7ESA, WE605S, WR550Z)

POWER SWITCH board (WE505, WE705S)

DIRECTION board (WE505, WE705S)

- Signal path.
 - ▷ : PB (DECK A)
 - ◁ : PB (DECK B)
 - ◁ ▷ : REC (DECK B)
- Abbreviation
 - CND : Canadian
 - G : German
 - AUS : Australian
 - CH : Chinese
 - SP : Singapore
 - MY : Malaysia
 - PA : Panama

• CIRCUIT BOARDS LOCATION



• Signal path.

- : PB (DECK A)
- : PB (DECK B)
- : REC (DECK B)

• Abbreviation

- CND : Canadian
- G : German
- AUS : Australian
- CH : Chinese
- SP : Singapore
- MY : Malaysia
- PA : Panama

5-2. PRINTED WIRING BOARDS (MAIN SECTION)

● SEMICONDUCTOR LOCATION

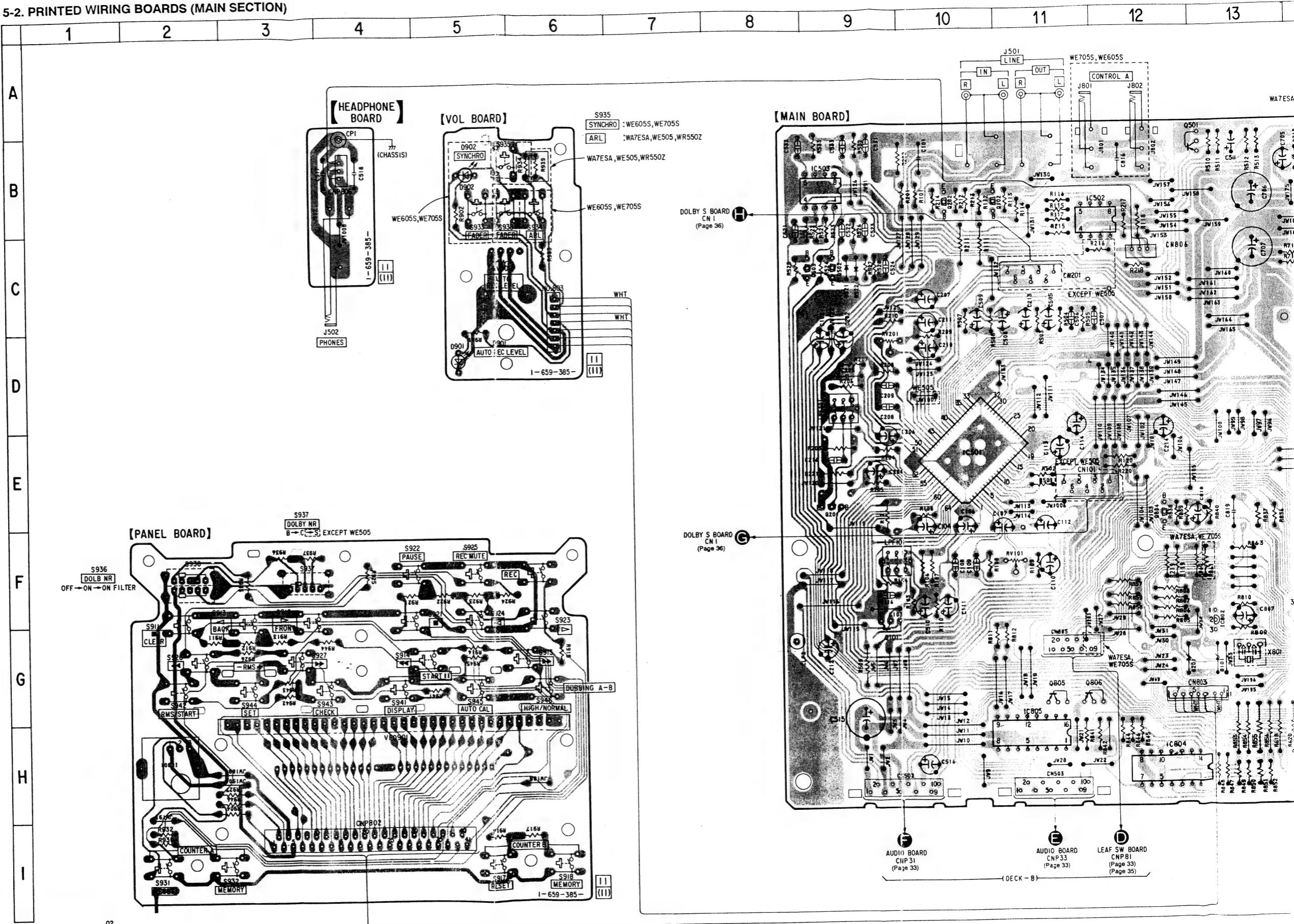
Ref. No.	Location	Ref. No.	Location
D101	G - 13	IC801	F - 14
D201	G - 13	IC802	G - 13
D521	C - 9	IC804	H - 12
D522	C - 9	IC805	H - 11
D601	H - 17	IC901	H - 2
D602	H - 17		
D701	B - 16	Q101	G - 9
D702	B - 16	Q102	B - 10
D703	C - 16	Q201	E - 9
D704	C - 16	Q202	B - 10
		Q501	B - 13
D705	B - 16		
D706	B - 16	Q502	G - 9
D707	D - 16	Q503	G - 9
D708	B - 14	Q601	H - 17
D709	B - 14	Q602	H - 18
		Q603	H - 17
D710	B - 14		
D711	C - 14	Q604	H - 17
D712	B - 16	Q605	G - 19
D713	D - 16	Q606	H - 17
D714	D - 16	Q701	B - 15
		Q702	D - 14
D715	D - 15		
D716	D - 15	Q703	B - 16
D801	G - 15	Q704	B - 16
D802	G - 15	Q705	B - 14
D803	G - 16	Q706	B - 16
		Q707	D - 16
D804	G - 16		
D805	E - 15	Q708	D - 15
D901	D - 5	Q709	B - 14
D902	B - 2	Q801	G - 15
		Q802	E - 16
		Q803	E - 15
IC501	E - 10		
IC502	B - 12	Q804	E - 12
IC503	B - 9	Q805	G - 11
IC601	F - 18	Q806	G - 11
IC701	G - 14	Q807	H - 17

Note:

- : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.

• Abbreviation

CND : Canadian
G : German
AUS : Australian
CH : Chinese
SP : Singapore
MY : Malaysia
PA : Panama



WE705S
WE505,WR550Z
550Z

DOLBY S BOARD
CN I
(Page 36)

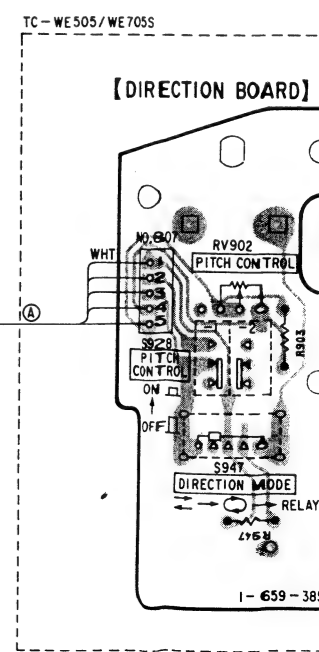
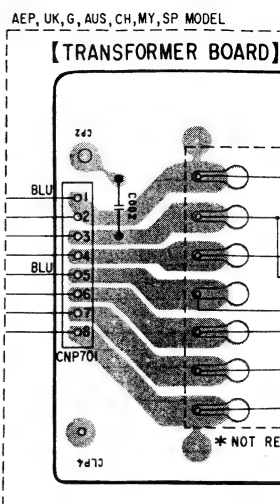
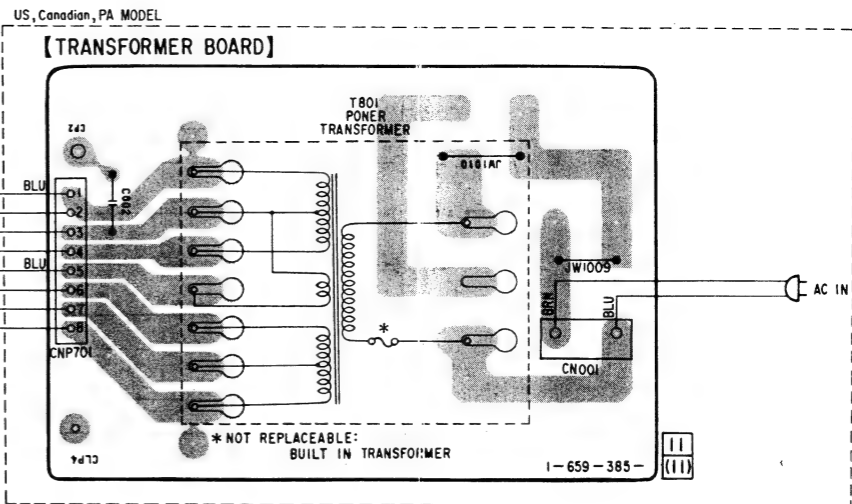
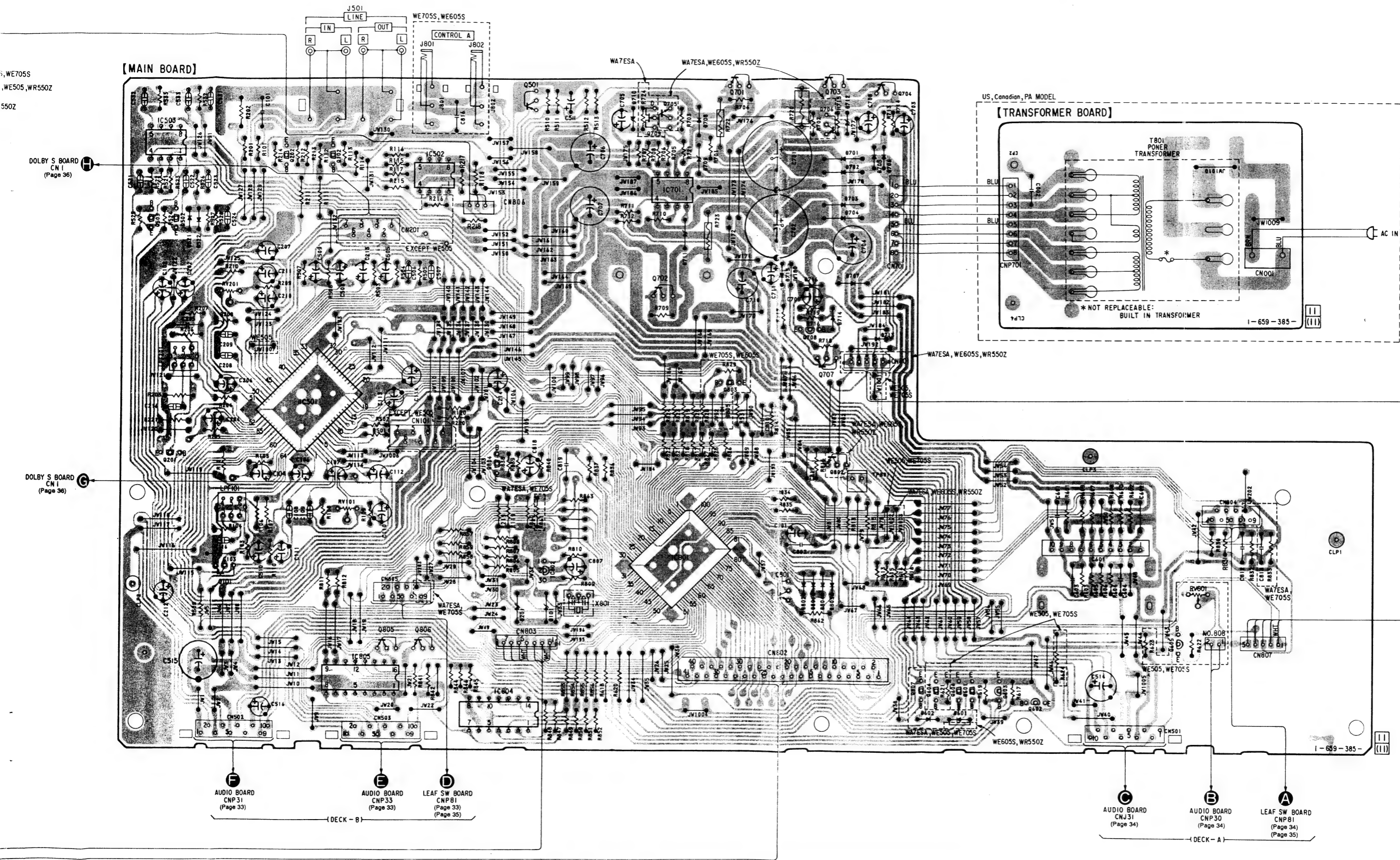
DOLBY S BOARD
CN I
(Page 36)

AUDIO BOARD
CNP 31
(Page 33)

AUDIO BOARD
CNP 33
(Page 33)

LEAF SW BOARD
CNP 81
(Page 35)

DECK - B

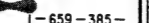
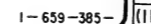
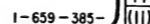
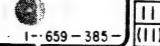
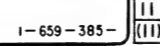


AUDIO BOARD
CNP 31
(Page 34)

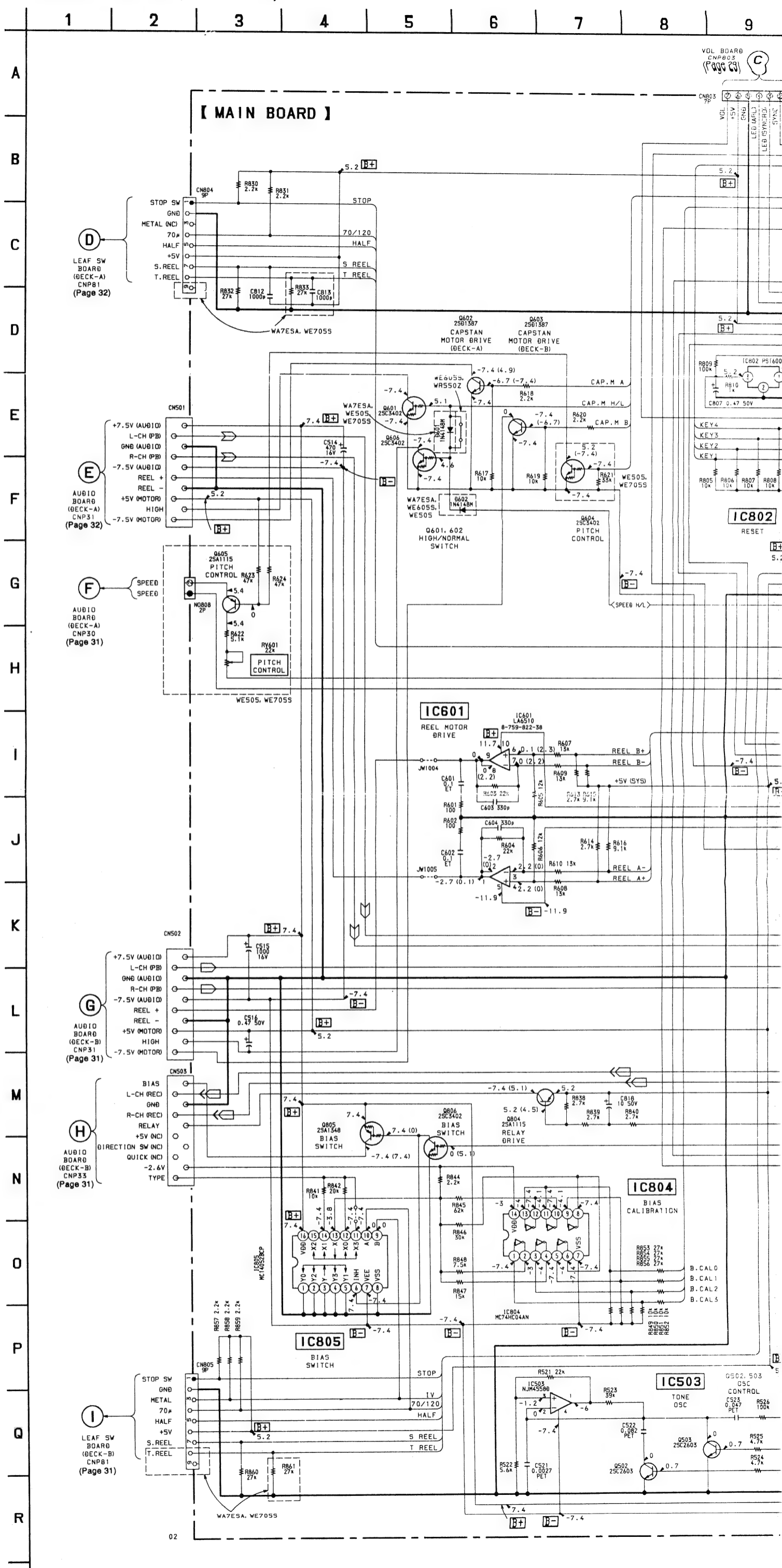
AUDIO BOARD
CNP 30
(Page 34)

LEAF SW BOARD
CNP 81
(Page 35)

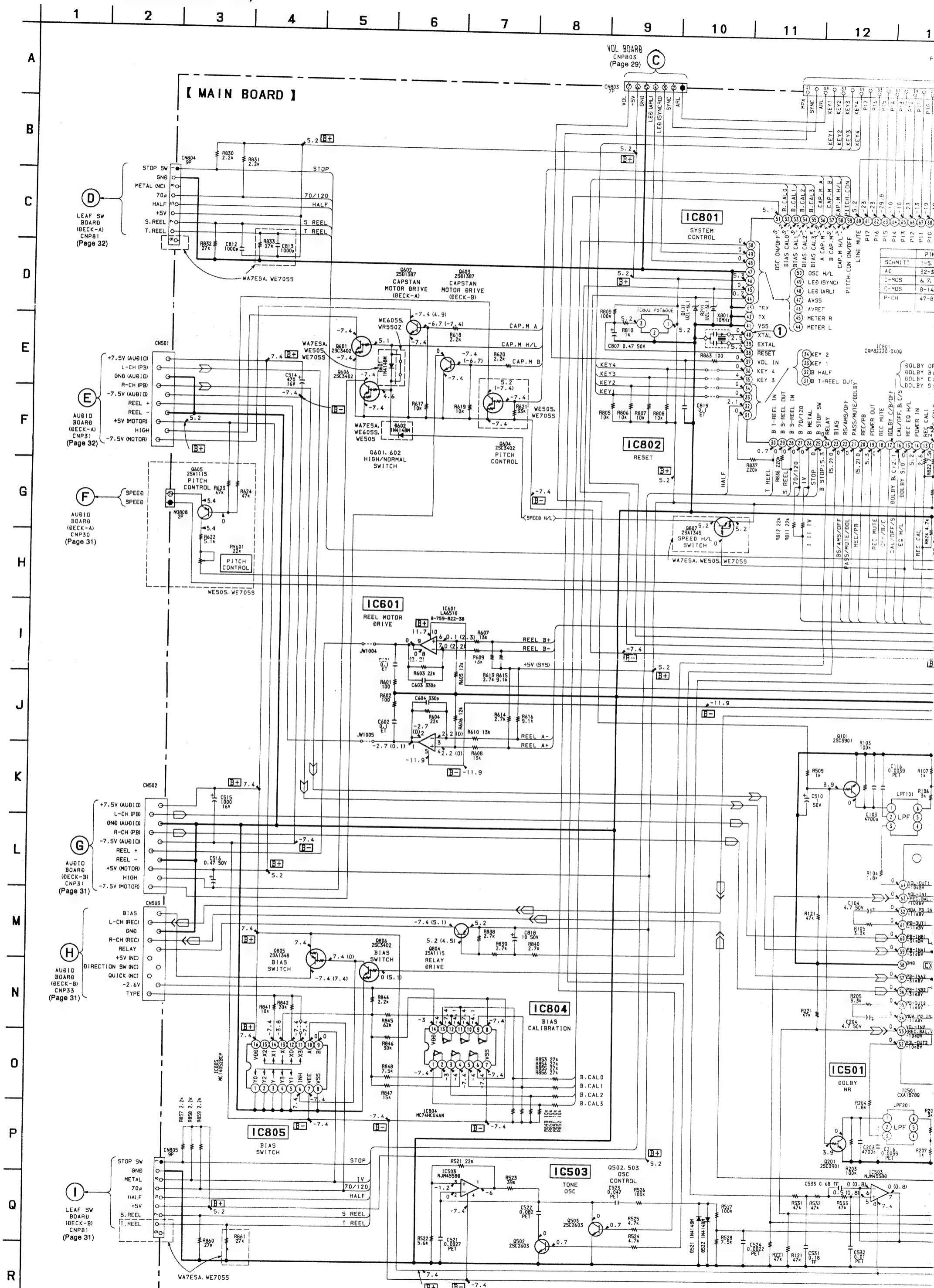
DECK - A



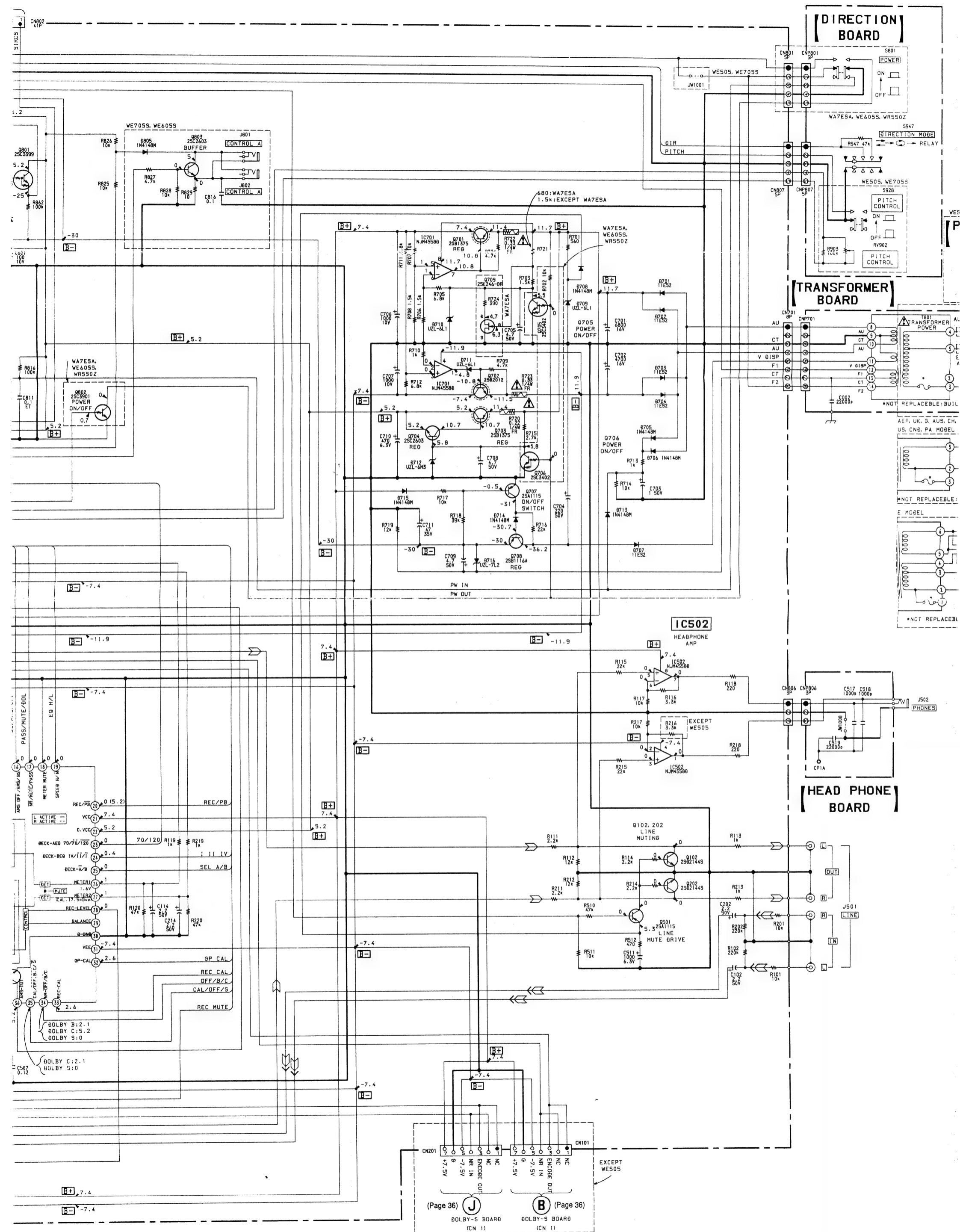
5-3. SCHEMATIC DIAGRAM (MAIN SECTION)

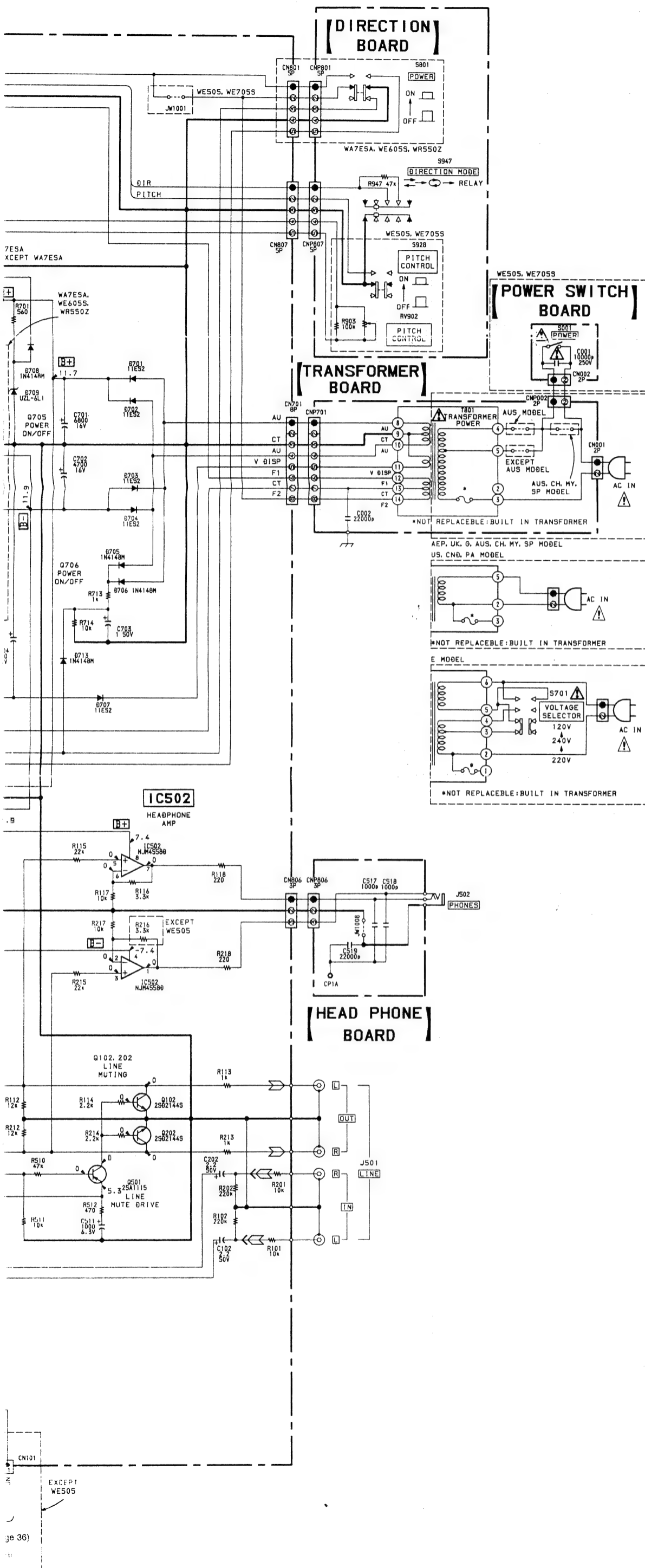


5-3. SCHEMATIC DIAGRAM (MAIN SECTION)

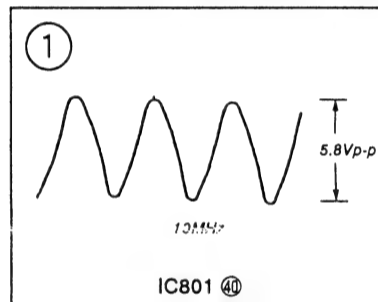








• WAVEFORM – MAIN SECTION –



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ F
- 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- Δ : internal component.
- $\text{---}\text{---}$: fusible resistor.

Note :

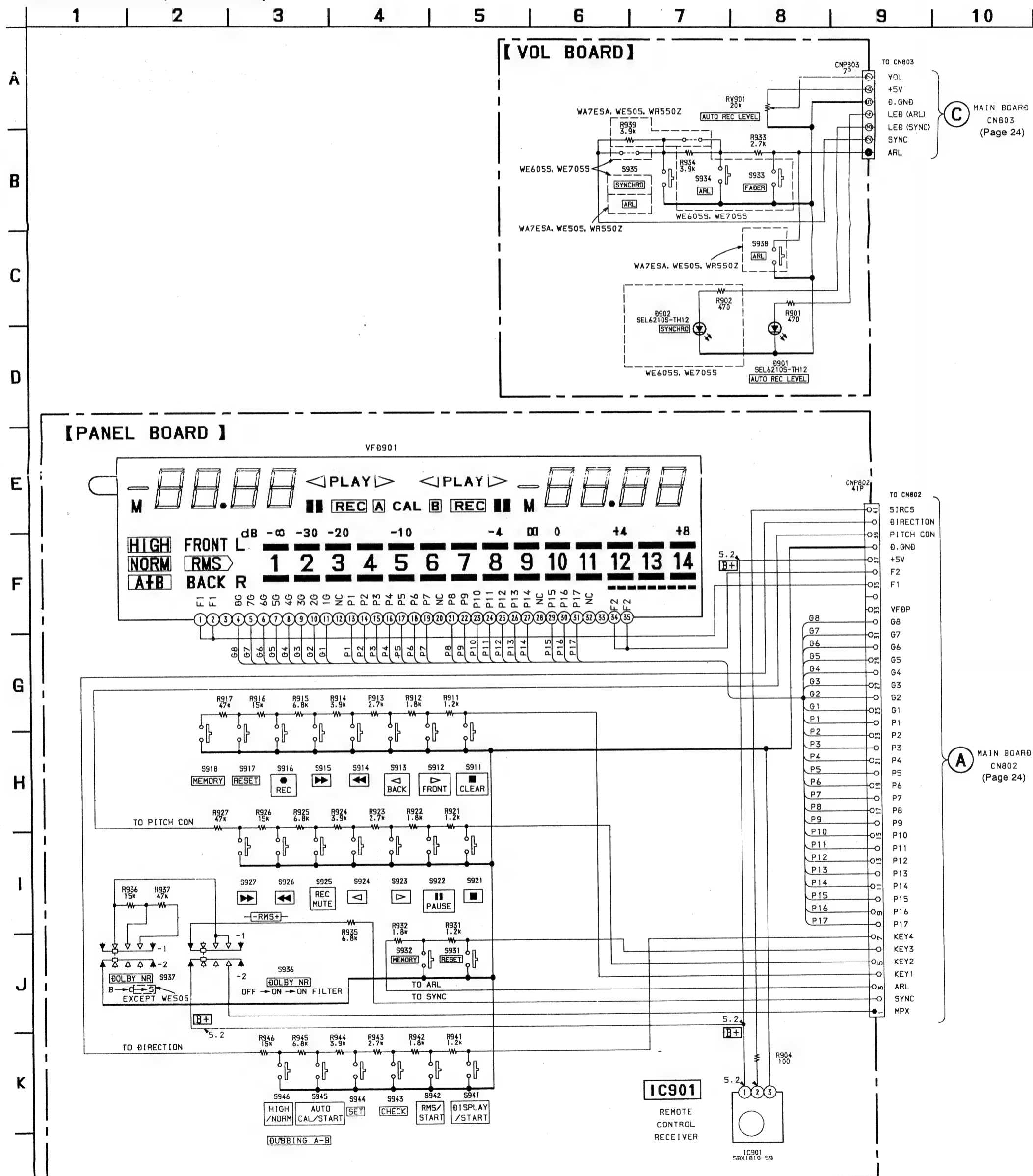
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

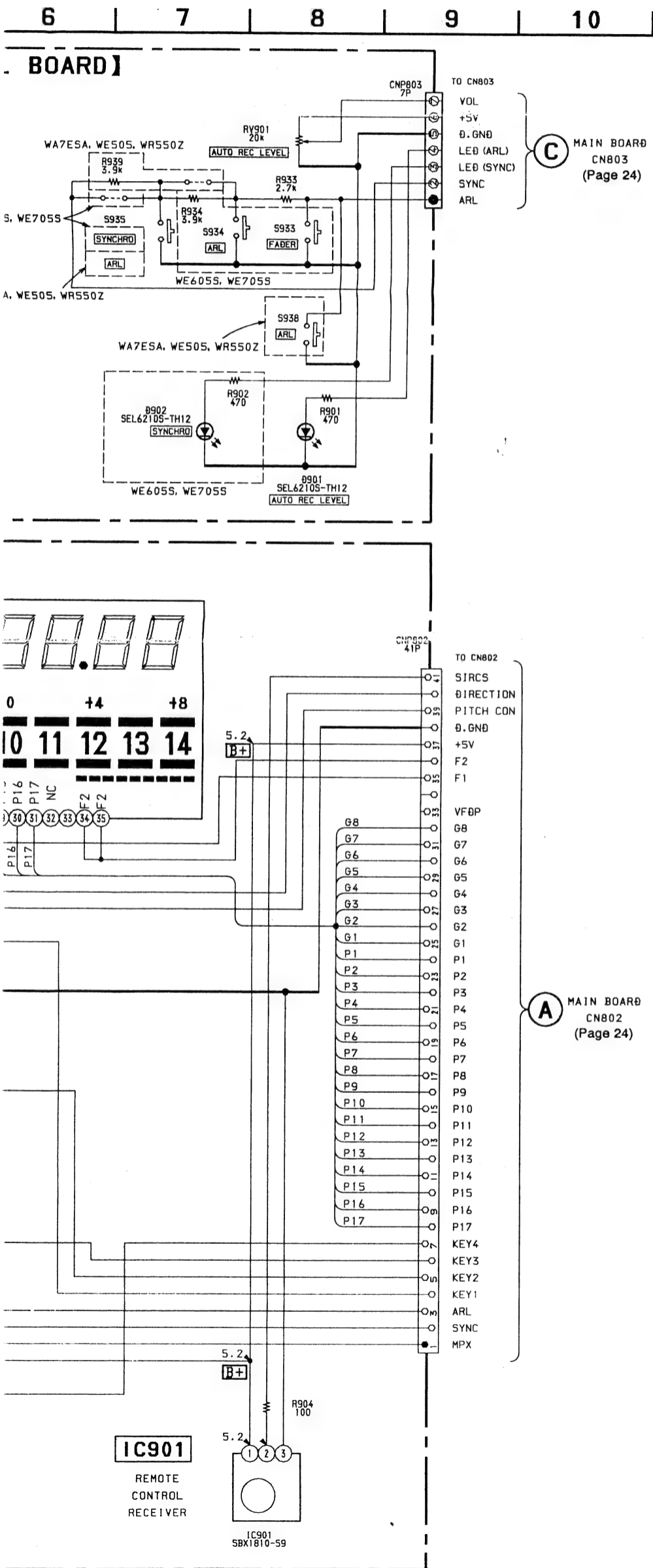
Note :

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

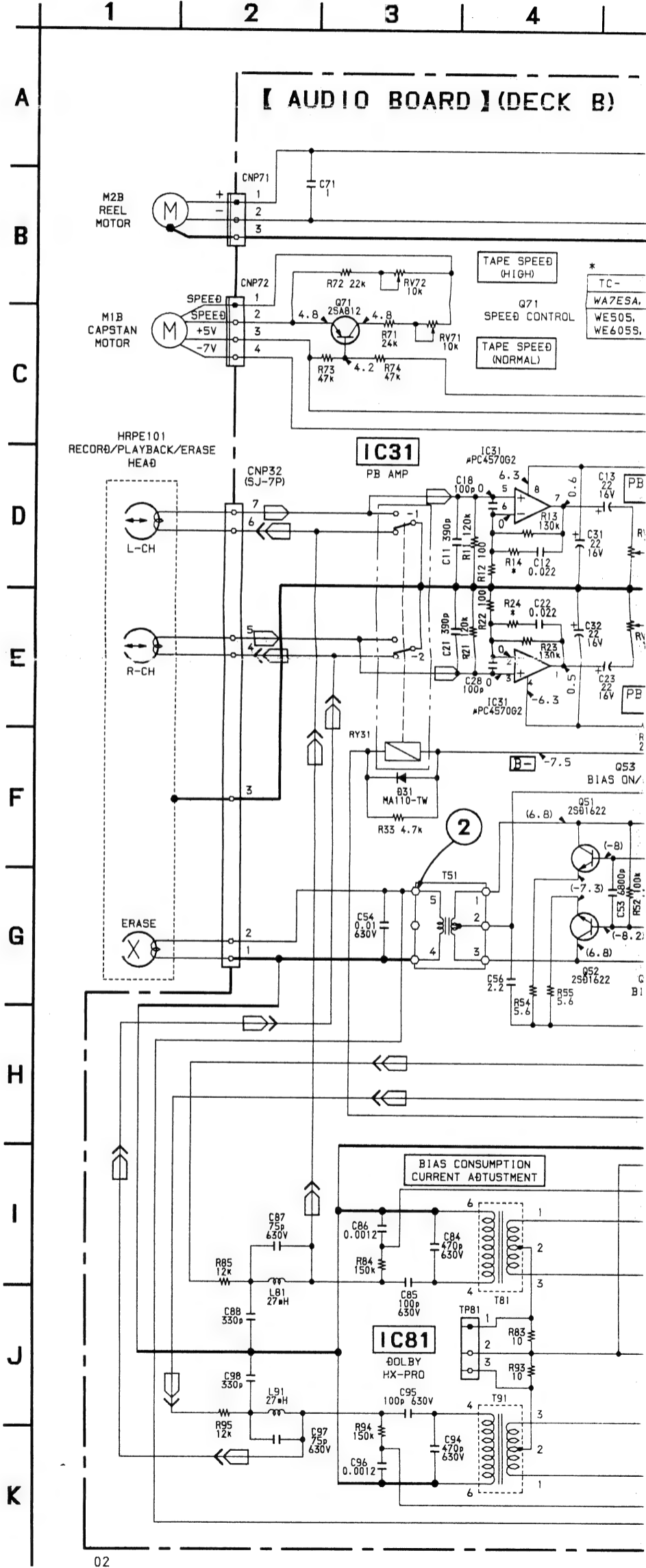
- **B+** : B+ Line
- **B-** : B- Line
- \square : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark : STOP
() : REC
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 \Rightarrow : PB (DECK A)
 \Rightarrow : PB (DECK B)
 \Rightarrow : REC (DECK B)
- Abbreviation
CND : Canadian
G : German
AUS : Australian
CH : Chinese
SP : Singapore
MY : Malaysia
PA : Panama

5-4. SCHEMATIC DIAGRAM (PANEL SECTION)





5-5. SCHEMATIC DIAGRAM (AUDIO SECTION)



Note :

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- **B+** : B+ Line
- **B-** : B- Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark : STOP
() : REC
- Voltages are taken with a VOM (Input impedance $10M\Omega$).
Voltage variations may be noted due to normal production tolerances.

- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : PB (DECK A)
 : PB (DECK B)
 : REC (DECK B)

TION)

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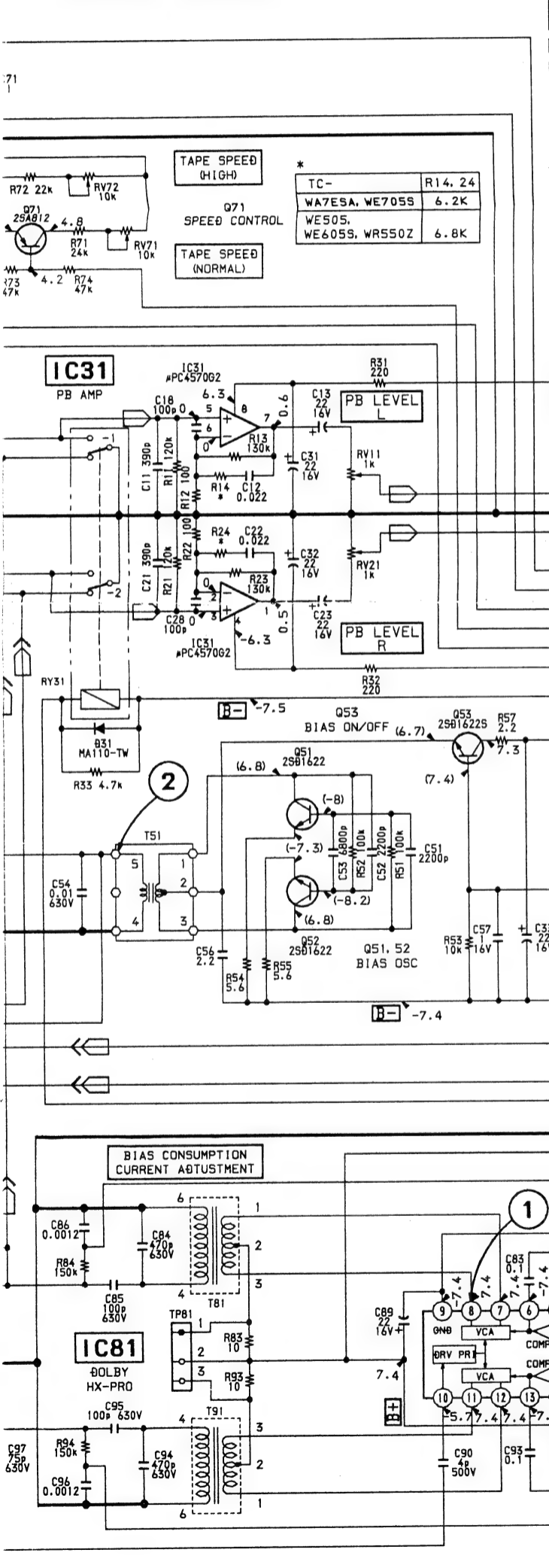
10

11

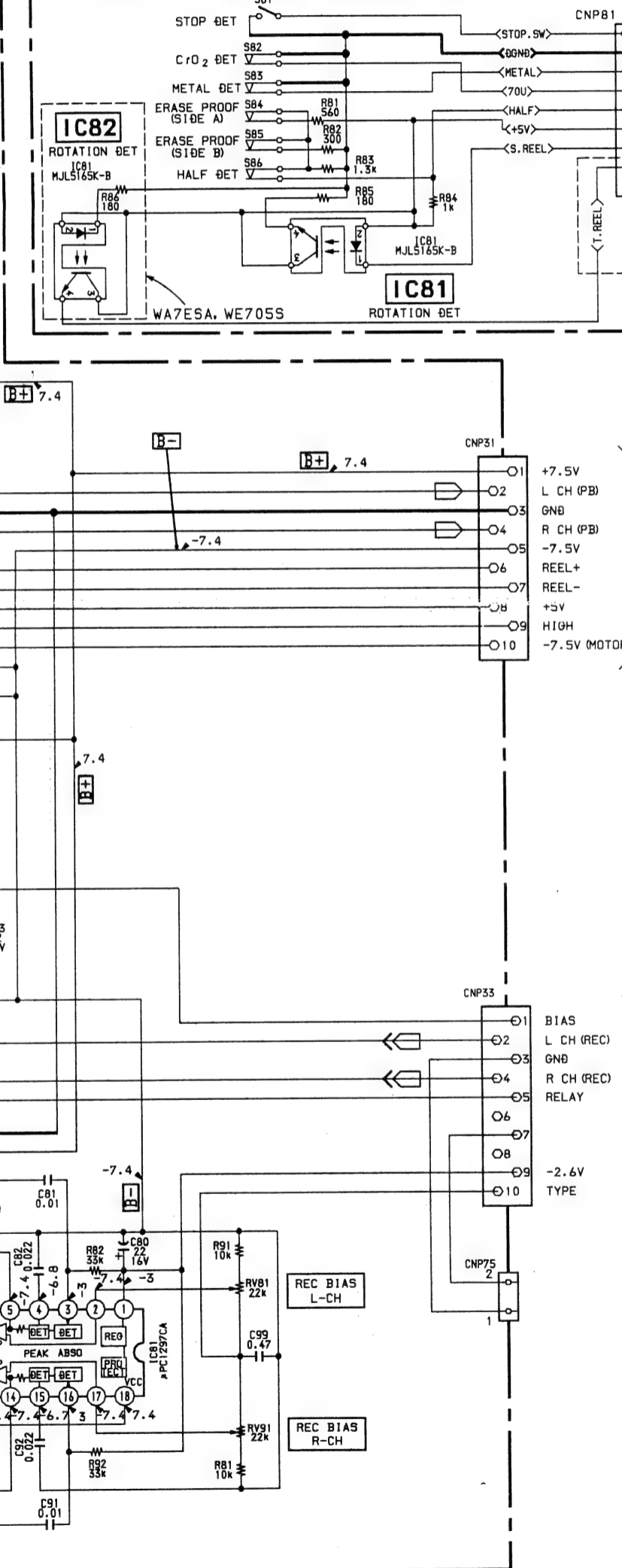
12

13

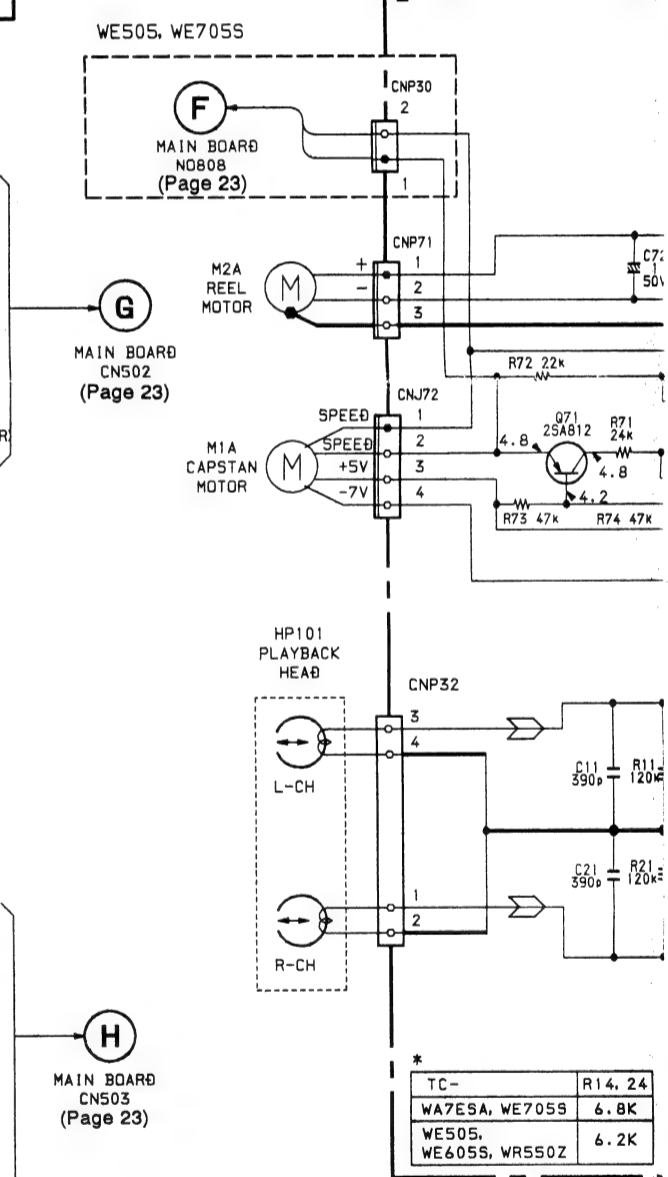
ADIO BOARD] (DECK B)



LEAF SW BOARD] (DECK B)



AUDIO BOARD



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A

B

C

D

E

F

G

H

I

HRPE101 RECORD/PLAYBACK/ERASE HEAD

BRN 01
ORG 02
BLK 03
BLU 04
YEL 05
WHT 06
RED 07

RV81 RV91
RV82 RV92
RV83 RV93
RV84 RV94
RV85 RV95
RV86 RV96
RV87 RV97
RV88 RV98
RV89 RV99
RV90 RV00
RV91 RV01
RV92 RV02
RV93 RV03
RV94 RV04
RV95 RV05
RV96 RV06
RV97 RV07
RV98 RV08
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RV01 RV11
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RV39 RV49
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RV47 RV57
RV48 RV58
RV49 RV59</

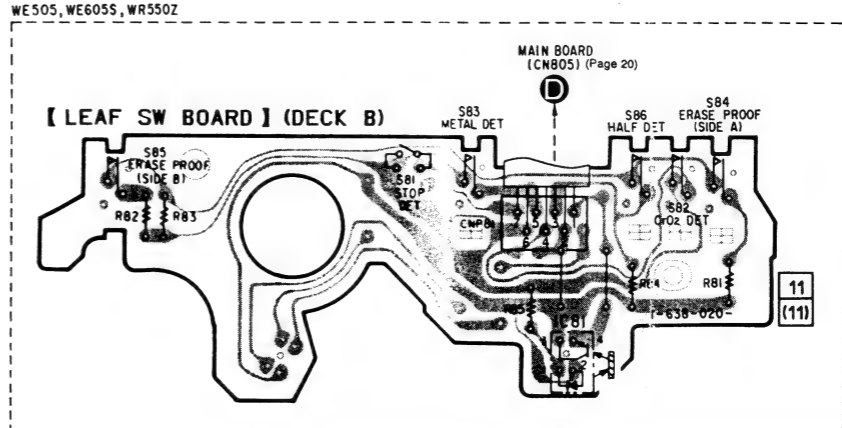
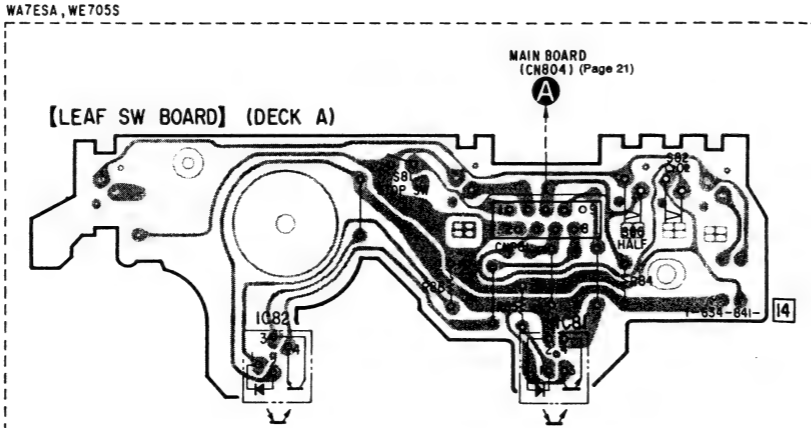
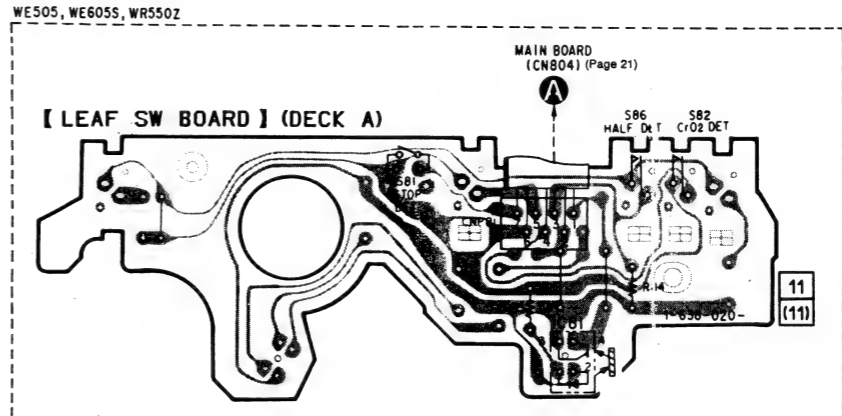
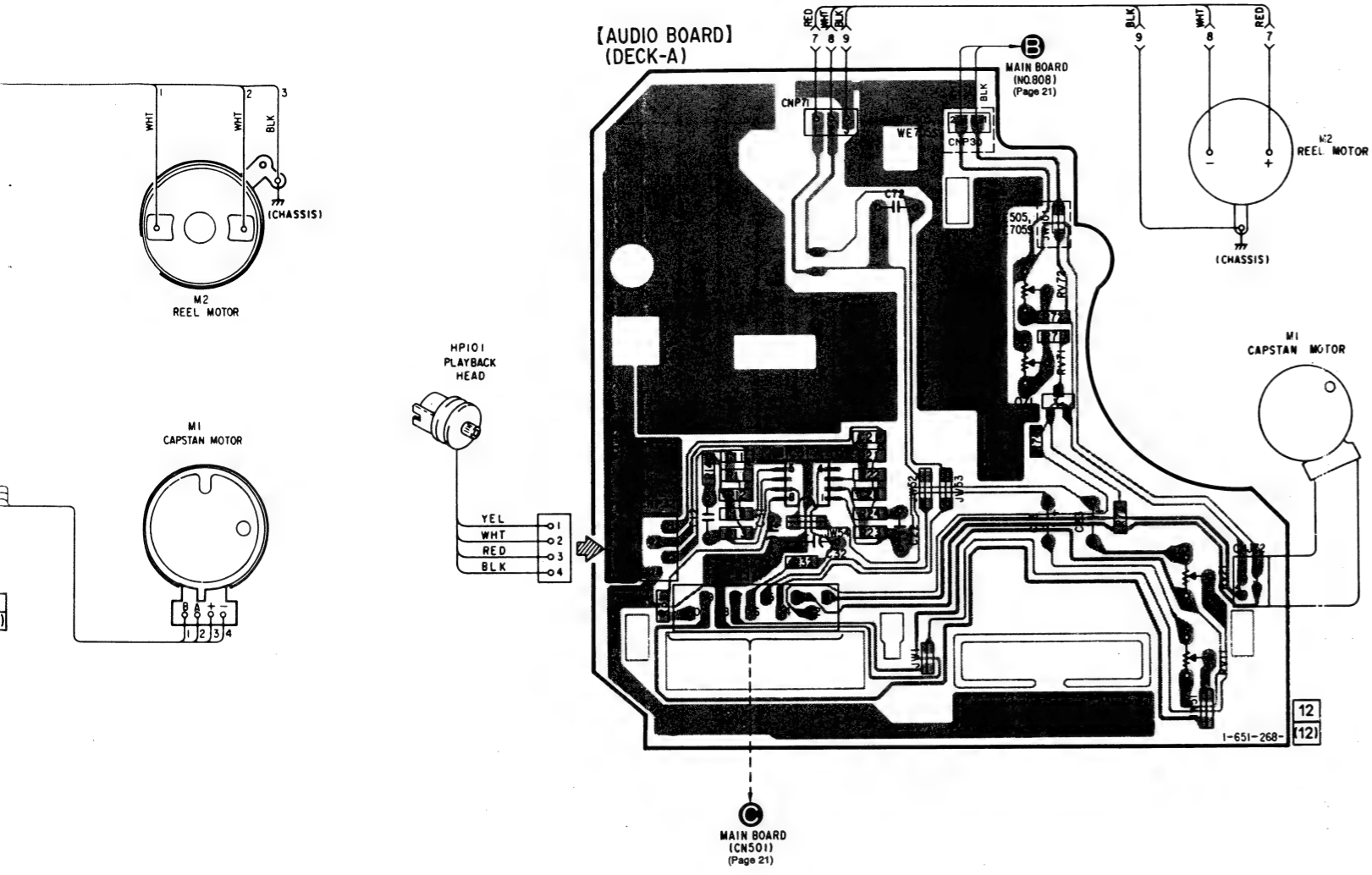
7	8	9	10	11	12	13	14	15	16	17	18	19	20
---	---	---	----	----	----	----	----	----	----	----	----	----	----

● SEMICONDUCTOR LOCATION
(DECK-A)

Ref. No.	Location
IC31	D - 11
IC81 (LEAF SW)	F - 18
IC81 (LEAF SW)	I - 13
IC82 (LEAF SW)	I - 12
Q71	C - 13

(DECK-B)

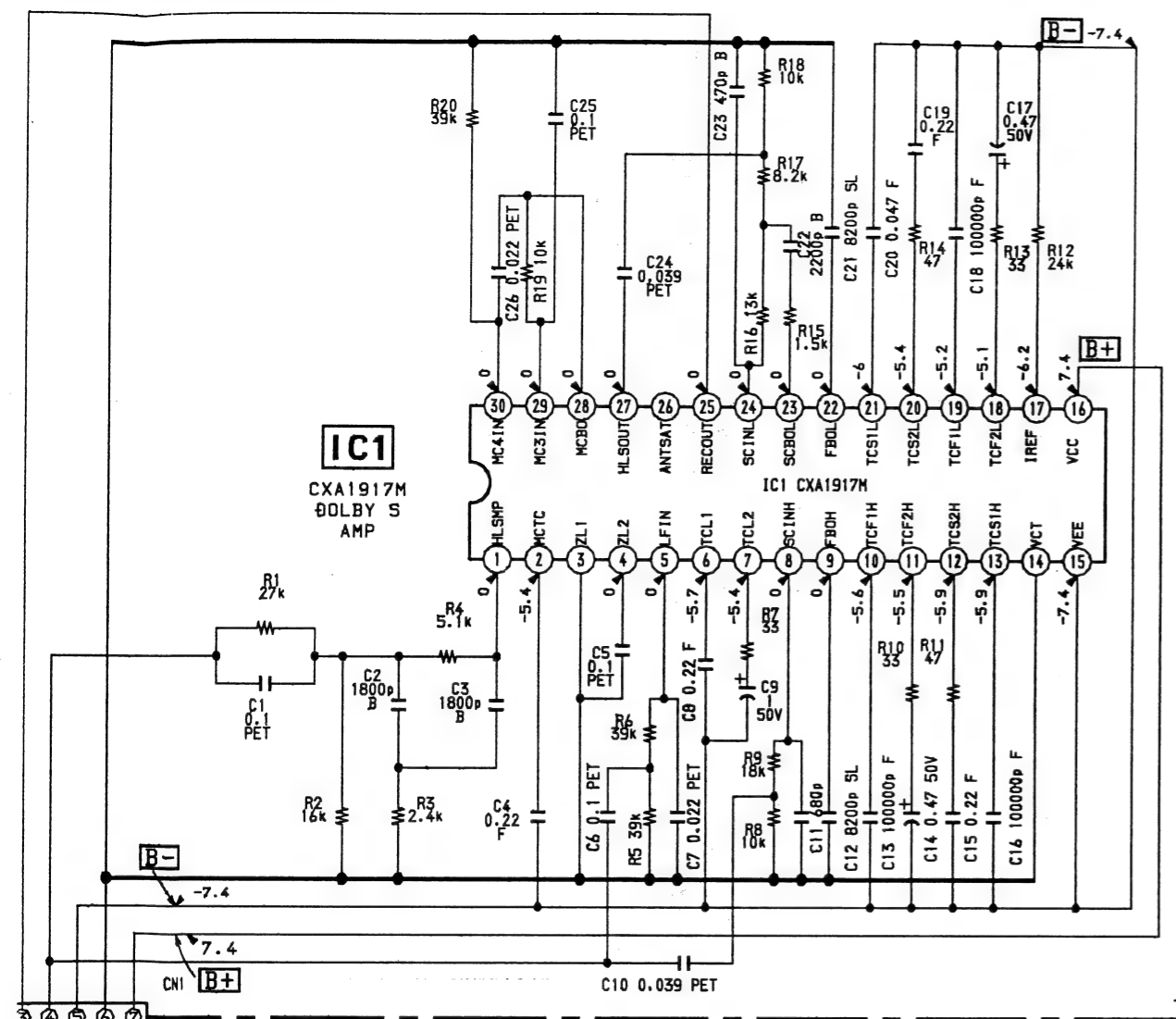
Ref. No.	Location
D31	C - 3
IC31	D - 4
IC81 (AUDIO)	B - 4
IC81 (LEAF SW)	I - 5
IC81 (LEAF SW)	I - 18
IC82 (LEAF SW)	I - 4
Q51	B - 3
Q52	B - 3
Q53	C - 3
Q71	C - 5



Note:

- : parts extracted from the component side.
- : Through hole.
- ▨ : Pattern on the side which is seen.
- ▩ : Pattern of the rear side.

[DOLBY-S BOARD]



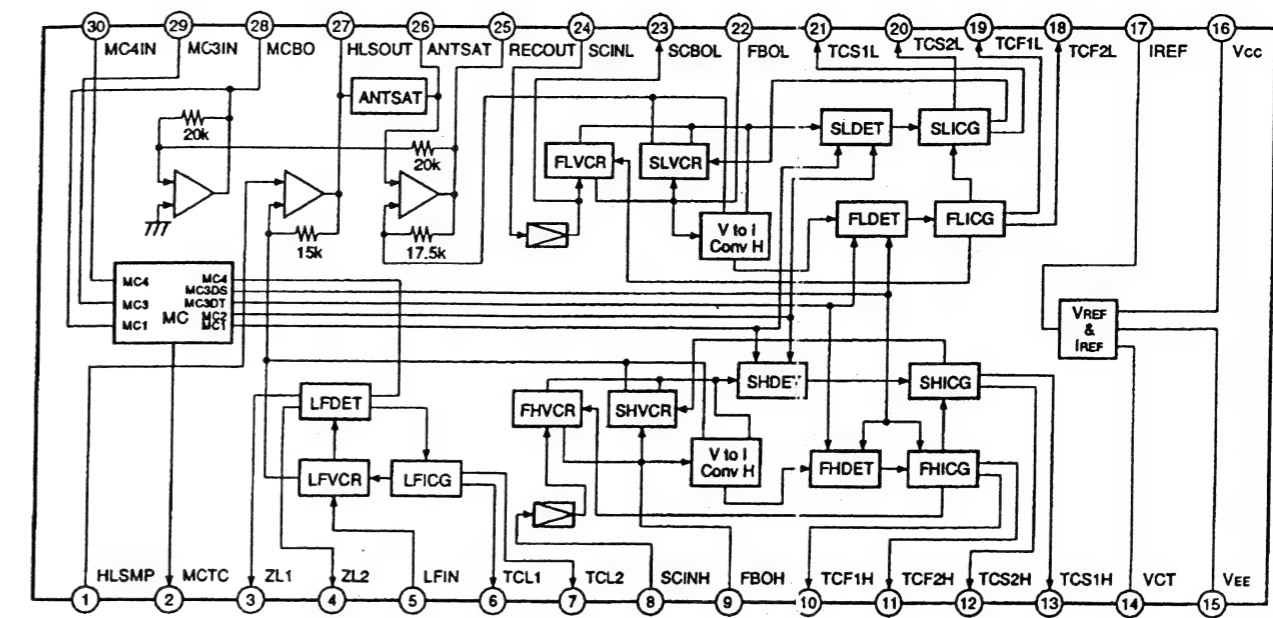
ENCORE OUT
INPUT
-7.5V
GND
+7.5V

J B
IN BOARD
1), (CN101)
5) (Page 26)

Note :

- All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{8}W$ or less unless otherwise specified.
- **B+** : B+ Line
- **B-** : B - Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark : STOP
- Voltages are taken with a VOM (Input impedance 10M Ω).
Voltage variations may be noted due to normal production tolerances.
- Voltage variations may be noted due to normal production tolerances.

• IC BLOCK DIAGRAM
IC1 CXA1917M-T6



SECTION 6 EXPLODED VIEWS

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this part list.

● Abbreviation

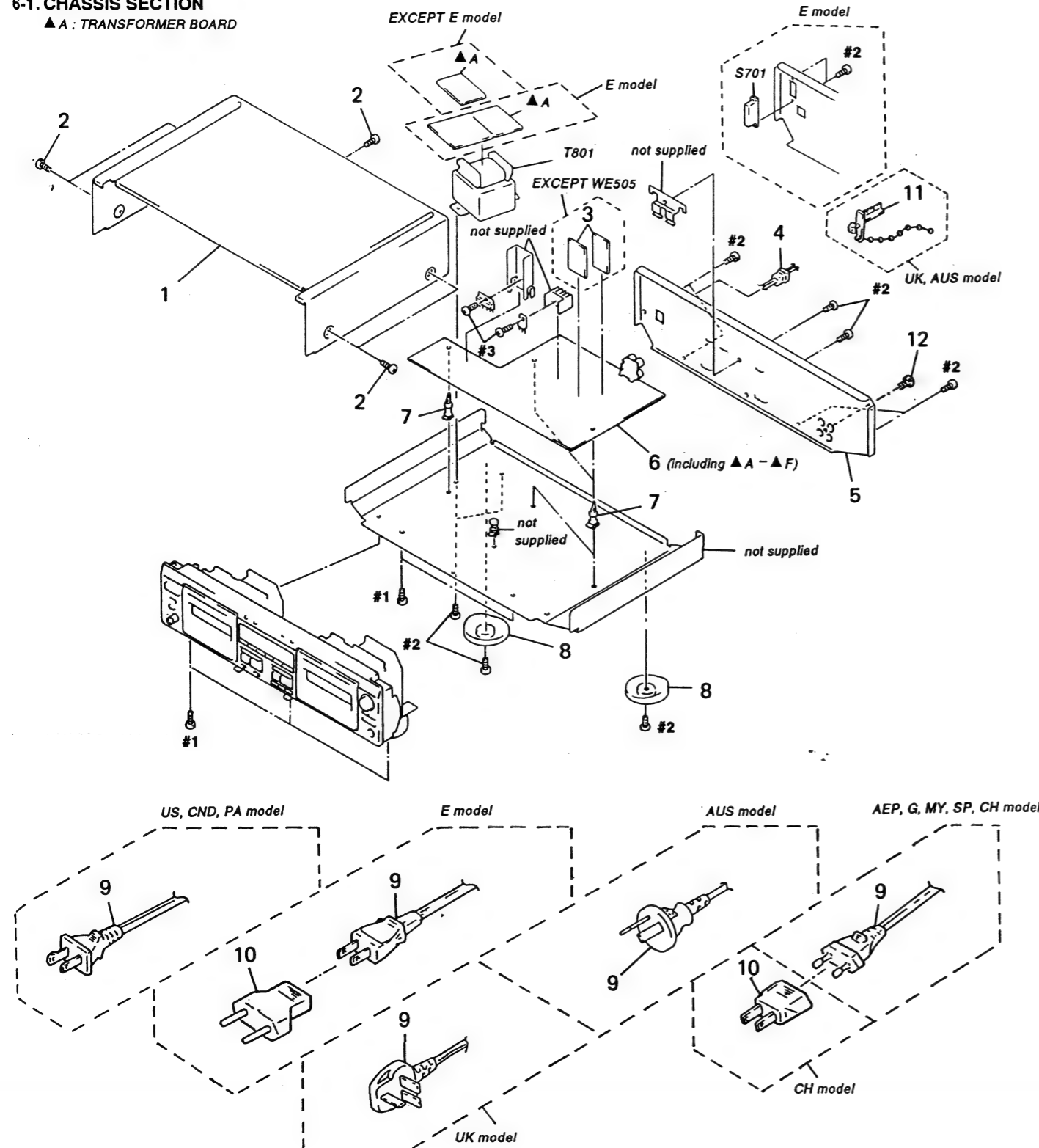
CND : Canadian G : German
AUS : Australian MY : Malaysia
SP : Singapore CH : Chinese
PA : Panama

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS SECTION

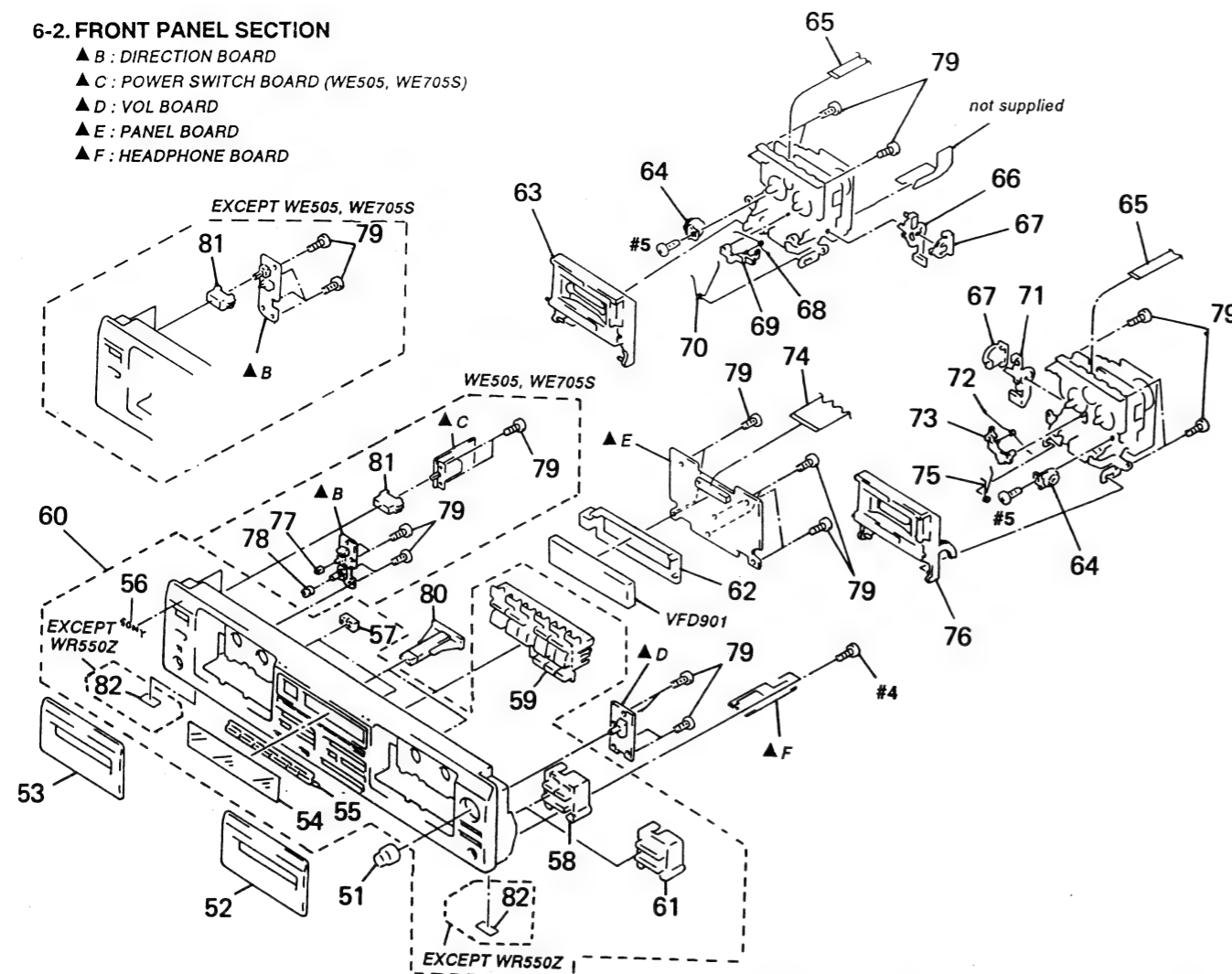
Δ A : TRANSFORMER BOARD



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 1	3-931-432-01	CASE (410726) (WA7ESA,WE605S,WR550Z)		* 6	A-2007-494-A	MAIN BOARD, COMPLETE (WE505)	
* 1	4-943-088-41	CASE (WE505,WE705S)		* 6	A-2007-495-A	MAIN BOARD, COMPLETE (WE705S)	
2	3-363-099-01	SCREW (CASE 3 TP2)(WE505,WE705S)		* 6	A-2007-513-A	MAIN BOARD, COMPLETE (WA7ESA)	
2	3-704-366-01	SCREW (CASE) (M3X8) (WA7ESA,WE605S,WR550Z)		* 6	A-2007-547-A	MAIN BOARD, COMPLETE (WR550Z)	
* 3	A-2007-481-A	DOLBY-S BOARD, COMPLETE (EXCEPT WE505)		* 6	A-2007-576-A	MAIN BOARD, COMPLETE (WE605S:MY,SP,CH)	
* 4	3-703-244-11	BUSHING (2104), CORD (AEP,UK,G,AUS, MY,SP,CH,)		* 7	3-346-265-31	HOLDER, PC BOARD	
4	3-703-571-11	BUSHING (S) (4516), CORD (US,CND,E,PA)		8	X-3371-435-1	FOOT ASSY (F50150S) (AEP,UK,G,E,AUS,MY,SP,CH)	
* 5	3-920-372-21	PANEL, BACK (WE505:UK)		8	X-3371-436-1	FOOT ASSY (F50145S) (US,CND,PA)	
* 5	3-931-244-01	PANEL, BACK (WE605S:US,PA)		Δ 9	1-551-188-99	CORD, POWER (E)	
* 5	3-931-244-11	PANEL, BACK (WE605S:CND)		Δ 9	1-558-945-21	CORD, POWER (POLAR.SPT-1) (US,CND,PA)	
* 5	3-931-244-21	PANEL, BACK (WE605S:E)		Δ 9	1-575-651-21	CORD, POWER (AEP,G,MY,SP,CH)	
* 5	3-931-244-31	PANEL, BACK (WE605S:AUS)		Δ 9	1-696-586-11	CORD, POWER (UK)	
* 5	3-931-244-41	PANEL, BACK (WE605S:MY,SP,CH)		Δ 9	1-696-845-11	CORD, POWER (AUS)	
* 5	3-931-245-01	PANEL, BACK (WE505:AEP,G)		Δ 10	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
* 5	3-931-245-21	PANEL, BACK (WR550Z)		Δ 10	1-569-008-21	ADAPTER, CONVERSION 2P (CH)	
* 5	3-931-246-01	PANEL, BACK (WE705S)		11	4-956-370-12	BAND, PLUG FIXED (UK,AUS)	
* 5	3-932-543-01	PANEL, BACK (WA7ESA:US)		12	3-704-515-01	SCREW (BV,RING) (WE505,WE705S)	
* 5	3-932-543-11	PANEL, BACK (WA7ESA:CND)		Δ S701	1-692-155-11	SELECTOR, POWER-VOLTAGE (VOLTAGE SELECTOR) (E)	
* 6	A-2007-491-A	MAIN BOARD, COMPLETE (WE605S:US,CND,PA)		Δ T801	1-427-782-11	TRANSFORMER, POWER (US,CND,PA)	
* 6	A-2007-492-A	MAIN BOARD, COMPLETE (WE605S:E)		Δ T801	1-427-783-11	TRANSFORMER, POWER (AEP,UK,G,AUS,MY,SP,CH)	
* 6	A-2007-493-A	MAIN BOARD, COMPLETE (WE605S:AUS)		Δ T801	1-427-784-11	TRANSFORMER, POWER (E)	

6-2. FRONT PANEL SECTION

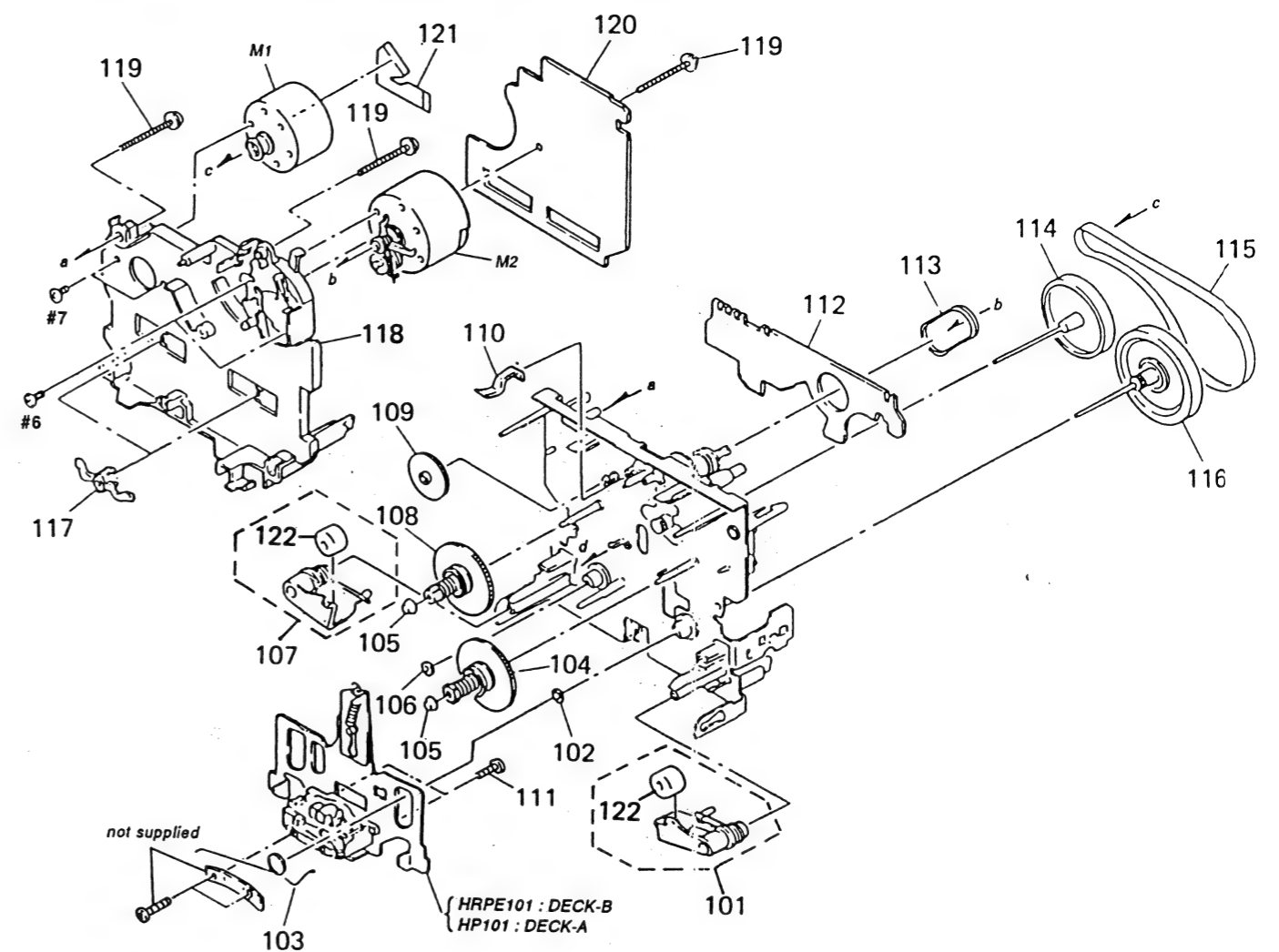
- ▲ B : DIRECTION BOARD
▲ C : POWER SWITCH BOARD (WE505, WE705S)
▲ D : VOL BOARD
▲ E : PANEL BOARD
▲ F : HEADPHONE BOARD



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-909-661-21	KNOB (REC) (WE505,WE705S)		64	3-354-963-01	DAMPER	
51	3-931-430-11	KNOB (REC) (WA7ESA,WE605S,WR550Z)		65	1-769-882-11	WIRE (FLAT TYPE) (7 CORE) (WE505,WE605S,WR550Z)	
52	X-3371-367-1	LID (HF) ASSY (B), CASSETTE (EXCEPT WA7ESA)		65	1-769-912-11	WIRE (FLAT TYPE) (9 CORE) (WA7ESA,WE705S)	
52	X-3371-572-1	LID (ES) ASSY (B), CASSETTE (WA7ESA)		* 66	3-354-953-01	LEVER (LOCK LEVER L)	
53	X-3371-366-1	LID (HF) ASSY (A), CASSETTE (EXCEPT WA7ESA)		67	3-354-957-01	JOINT (LOCK LEVER)	
53	X-3371-571-1	LID (ES) ASSY (A), CASSETTE (WA7ESA)		68	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
54	3-931-248-01	WINDOW (M) (EXCEPT WA7ESA:CND)		69	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
54	3-931-248-31	WINDOW (M) (WA7ESA:CND)		70	4-959-231-11	SPRING (L), TORSION	
55	3-931-237-01	BUTTON (RMS-6)		* 71	3-354-954-01	LEVER (LOCK LEVER R)	
56	4-963-404-21	EMBLEM (5-A), SONY		72	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
57	3-931-243-01	BUTTON (COUNTER)		73	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
58	X-3371-370-1	BUTTON (SYNCHRO) ASSY (WE705S,WE605S)		74	1-769-598-11	WIRE (FLAT TYPE) (41 CORE)	
59	3-931-239-01	BUTTON (SR)		75	4-959-232-11	SPRING (R), TORSION	
60	X-3371-355-1	PANEL (HF) ASSY, FRONT (WE605S:US,CND,PA)		76	X-4945-946-1	HOLDER (R) ASSY, CASSETTE	
60	X-3371-356-1	PANEL (HF) ASSY, FRONT (WE605S:E,AUS,MY,SP,CH)		77	3-380-952-21	BUTTON (5X5)	
60	X-3371-357-1	PANEL ASSY, FRONT (WR550Z)		78	3-931-378-01	KNOB (F10) (WE505,WE705S)	
60	X-3371-358-1	PANEL ASSY, FRONT (WE505)		79	4-951-620-01	SCREW (2.6X8), +BVTP	
60	X-3371-361-1	PANEL ASSY, FRONT (WE705S)		80	3-377-328-11	BUTTON (EJECT) (WE505,WE705S)	
60	X-3371-567-1	PANEL (ES) ASSY, FRONT (WA7ESA:US)		80	3-931-427-11	BUTTON (EJ) (WA7ESA,WE605S,WR550Z)	
60	X-3371-568-1	PANEL (ES) ASSY, FRONT (WA7ESA:CND)		81	3-354-932-01	BUTTON (POWER) (WE505,WE705S)	
61	3-931-242-01	BUTTON (ARL) (WA7ESA,WE505,WR550Z)		81	3-931-429-01	BUTTON (POWER) (WE605S,WR550Z)	
* 62	3-377-337-11	HOLDER (FL)		81	4-922-921-31	BUTTON (POWER) (WA7ESA)	
63	X-4945-947-1	HOLDER (L) ASSY, CASSETTE		82	4-977-358-01	CUSHION (8X12.5) (EXCEPT WR550Z)	
				VFD901	1-517-263-11	INDICATOR TUBE, FLUORESCENT	

6-3. MECHANISM SECTION 1

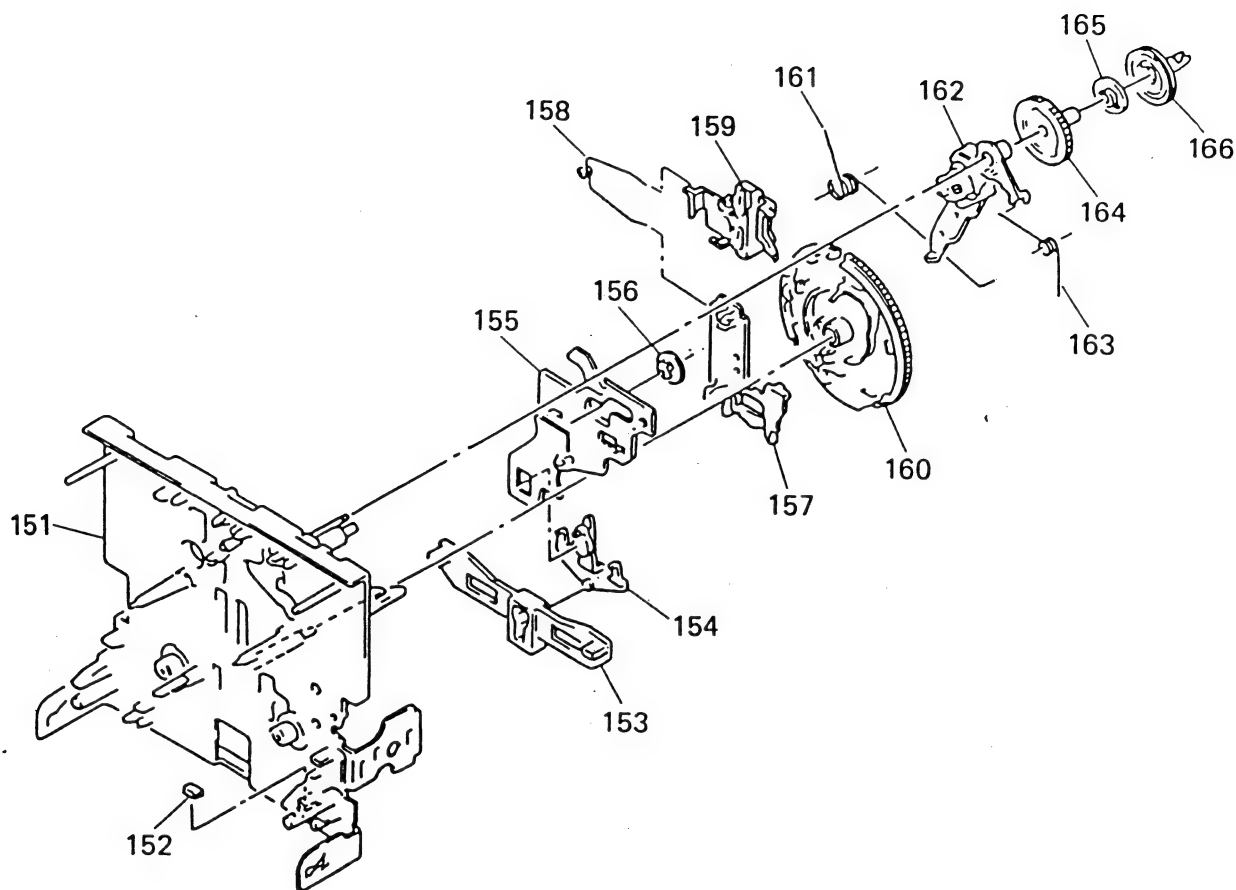
- DECK-A (TC-WE605S/WR550Z : TCM-190RA12CL
TC-WE505 : TCM-190RA14CL
TC-WA7ESA : TCM-190RA17CL
TC-WE705S : TCM-190RA18C)
DECK-B (TC-WA7ESA/WE705S : TCM-190RB11C
TC-WE505/WE605S/WR550Z : TCM-190RB12CL)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-3366-047-1	LEVER (PINCH F) ASSY		116	X-3367-629-1	FLYWHEEL (FWD) ASSY	
102	3-356-713-01	WASHER		117	3-575-321-00	RETAINER, THRUST, CAPSTAN	
103	3-907-362-01	SPRING, TORSION		118	3-359-436-11	BASE (THRUST RETAINER),FITTING	
104	X-3366-970-1	TABLE ASSY, REEL (WE505,WE605S,WR550Z)		119	3-359-414-01	SCREW (+PTPWH 2X23)	
104	X-3366-971-1	TABLE ASSY, REEL (WA7ESA,WE705S)		* 120	A-2007-040-A	AUDIO BOARD, COMPLETE (DECK B)	
105	3-362-308-01	CAP (REEL)		* 120	A-2007-266-A	AUDIO BOARD, COMPLETE (DECK A) (WE605S, WR550Z)	
106	3-356-714-01	WASHER		* 120	A-2007-339-A	AUDIO BOARD, COMPLETE (DECK A) (WE505)	
107	X-3366-048-1	LEVER (PINCH R) ASSY		* 120	A-2007-479-A	AUDIO BOARD, COMPLETE (DECK A) (WA7ESA)	
108	X-3366-971-1	TABLE ASSY (B), REEL		* 120	A-2007-480-A	AUDIO BOARD, COMPLETE (DECK A) (WE705S)	
109	3-359-424-01	GEAR (REV GEAR)		121	1-638-983-11	MOTOR FLEXIBLE BOARD	
110	3-359-430-01	SPRING (CASSETTE RETAINER),LEAF		122	3-355-808-02	PINCH ROLLER	
111	3-388-848-01	SCREW (P2X6) (B TIGHT)		HP101	A-2004-526-A	DECK ASSY, HEAD (PLAYBACK) (WE505, WE605S,WR550Z)	
* 112	1-634-841-14	LEAF SW BOARD (DECK A) (WA7ESA,WE705S)		HP101	A-2004-548-A	DECK ASSY, HEAD (PLAYBACK) (WA7ESA, WE705S)	
* 112	1-638-020-11	LEAF SW BOARD (DECK A) (WE505,WE605S, WR550Z)		HRPE101A-2004-527-A	DECK ASSY, HEAD (RECORD / PLAYBACK / ERASE)		
* 112	1-634-841-14	LEAF SW BOARD (DECK B) (WA7ESA,WE705S)		M1	X-3365-377-2	MOTOR ASSY (CAPSTAN)	
* 112	1-638-020-11	LEAF SW BOARD (DECK B) (WE505,WE605S, WR550Z)		M2	X-3365-501-2	MOTOR ASSY (REEL)	
113	3-359-466-01	BELT (FR), SQUARE					
114	X-3367-630-1	FLYWHEEL (REV) ASSY					
115	3-359-417-01	BELT (FLAT), CAPSTAN					

6-4. MECHANISM SECTION 2

DECK-A	TC-WE605S/WR550Z	: TCM-190RA12CL
	TC-WE505	: TCM-190RA14CL
	TC-WA7ESA	: TCM-190RA17CL
	TC-WE705S	: TCM-190RA18C
DECK-B	TC-WA7ESA/WE705S	: TCM-190RB11C
	TC-WE505/WE605S/WR550Z	: TCM-190RB12CL



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-3359-415-1	CHASSIS ASSY MECHANICAL		159	3-359-429-01	SLIDER (BRAKE PLATE)	
152	3-359-469-01	SPACER		* 160	3-936-483-01	GEAR (CAM GEAR)	
153	3-359-425-01	SLIDER (REVERSE SLIDER)		161	3-359-456-01	SPRING (TRIGGER SPRING), TORSION	
154	3-359-426-01	LEVER (REVERSE LEVER)		162	X-3366-569-1	ARM ASSY, FR	
* 155	3-359-415-01	SLIDER (TRIGGER SLIDER)		163	3-924-185-11	SPRING (FR ARM), TORSION	
156	3-359-448-01	GEAR (TRIGGER)		164	3-359-419-11	GEAR (FR GEAR)	
157	3-359-427-01	SLIDER (LEVERSE SLIDER)		165	3-359-421-01	CLUTCH (REEL DISK)	
158	3-359-454-01	SPRING, TORSION		166	3-359-418-01	PULLEY (FR PULLEY)	

SECTION 7 ELECTRICAL PARTS LIST

AUDIO (DECK A)

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal oxide-film resistor
F : nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

In each case, u : μ , for example :
uA : μ A, uPA : μ PA
uPB : μ PB, uPC : μ PC
uPD : μ PD

CAPACITORS

uF : μ F

COILS

uH : μ H

Abbreviation

CND : Canadian
AUS : Australian
SP : Singapore
PA : Panama

G : German
MY : Malaysia
CH : Chinese

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
*	A-2007-266-A	AUDIO BOARD, COMPLETE (DECK A) (WE605S, WR550Z)	
*	A-2007-339-A	AUDIO BOARD, COMPLETE (DECK A) (WE505)	
*	A-2007-479-A	AUDIO BOARD, COMPLETE (DECK A) (WA7ESA)	
*	A-2007-480-A	AUDIO BOARD, COMPLETE (DECK A) (WE705S)	

< CAPACITOR >			
C11	1-163-131-00	CERAMIC CHIP 390PF 5% 50V	
C12	1-136-157-00	FILM 0.022uF 5% 50V	
C13	1-124-234-00	ELECT 22uF 20% 16V	
C18	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C21	1-163-131-00	CERAMIC CHIP 390PF 5% 50V	
C22	1-136-157-00	FILM 0.022uF 5% 50V	
C23	1-124-234-00	ELECT 22uF 20% 16V	
C28	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C31	1-124-234-00	ELECT 22uF 20% 16V	
C32	1-124-234-00	ELECT 22uF 20% 16V	
C72	1-109-889-11	ELECT 1uF 20% 50V	
< CONNECTOR >			
* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD	
CNJ72	1-764-902-11	CONNECTOR, FFC/FPC 4P	
* CNP30	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P (WE505, WE705S)	
* CNP32	1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P	
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	
< IC >			
IC31	8-759-106-02	IC uPC4570G2	
< JUMPER RESISTOR >			
JW1	1-216-295-00	METAL CHIP 0 5% 1/10W	
JW51	1-216-296-00	METAL CHIP 0 5% 1/8W	
JW52	1-216-296-00	METAL CHIP 0 5% 1/8W	
JW53	1-216-296-00	METAL CHIP 0 5% 1/8W	
JW54	1-216-296-00	METAL CHIP 0 5% 1/8W	

Ref. No.	Part No.	Description	Remark
JW101	1-216-295-00	METAL CHIP 0 5% 1/10W	(WE505, WE705S)
< TRANSISTOR >			
Q71	8-729-216-22	TRANSISTOR 2SA1162-G	
< RESISTOR >			
R11	1-216-099-00	METAL CHIP 120K 5% 1/10W	
R12	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R13	1-216-100-00	METAL GLAZE 130K 5% 1/10W	
R14	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R14	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	(WA7ESA, WE705S)
R21	1-216-099-00	METAL CHIP 120K 5% 1/10W	
R22	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R23	1-216-100-00	METAL GLAZE 130K 5% 1/10W	
R24	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R24	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	(WA7ESA, WE705S)
R31	1-216-033-00	METAL CHIP 220 5% 1/10W	
R32	1-216-033-00	METAL CHIP 220 5% 1/10W	
R71	1-216-082-00	METAL GLAZE 24K 5% 1/10W	
R72	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R73	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R74	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
< VARIABLE RESISTOR >			
RV11	1-241-761-11	RES, ADJ, CARBON 1K (PB LEVEL L)	
RV21	1-241-761-11	RES, ADJ, CARBON 1K (PB LEVEL R)	
RV71	1-241-630-11	RES, ADJ, CARBON 10K	
RV72	1-241-630-11	RES, ADJ, CARBON 10K (TAPE SPEED(NORMAL))	
RV72	1-241-630-11	RES, ADJ, CARBON 10K (TAPE SPEED(HIGH))	

AUDIO (DECK B)

Ref. No.	Part No.	Description	Remark
*	A-2007-040-A	AUDIO BOARD, COMPLETE (DECK B)	

< CAPACITOR >			
C11	1-163-131-00	CERAMIC CHIP 390PF 5% 50V	
C12	1-136-157-00	FILM 0.022uF 5% 50V	
C13	1-124-234-00	ELECT 22uF 20% 16V	
C18	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C21	1-163-131-00	CERAMIC CHIP 390PF 5% 50V	
C22	1-136-157-00	FILM 0.022uF 5% 50V	
C23	1-124-234-00	ELECT 22uF 20% 16V	
C28	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C31	1-124-234-00	ELECT 22uF 20% 16V	
C32	1-124-234-00	ELECT 22uF 20% 16V	
C33	1-124-234-00	ELECT 22uF 20% 16V	
C51	1-164-161-11	CERAMIC CHIP 0.0022uF 10% 100V	
C52	1-164-161-11	CERAMIC CHIP 0.0022uF 10% 100V	
C53	1-163-019-00	CERAMIC CHIP 0.0068uF 10% 50V	
C54	1-136-601-11	FILM 0.01uF 5% 630V	
C56	1-164-505-11	CERAMIC CHIP 2.2uF 16V	
C57	1-164-346-11	CERAMIC CHIP 1uF 16V	
C71	1-164-346-11	CERAMIC CHIP 1uF 16V	
C80	1-124-234-00	ELECT 22uF 20% 16V	
C81	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C82	1-136-157-00	FILM 0.022uF 5% 50V	
C83	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C84	1-136-478-11	FILM 470PF 5% 630V	
C85	1-136-433-11	FILM 100PF 5% 630V	
C86	1-163-143-00	CERAMIC CHIP 0.0012uF 5% 50V	
C87	1-136-273-91	FILM 75PF 5% 630V	
C88	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C89	1-124-234-00	ELECT 22uF 20% 16V	
C90	1-107-584-11	CERAMIC 4PF 0.25PF500V	
C91	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C92	1-136-157-00	FILM 0.022uF 5% 50V	
C93	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C94	1-136-478-11	FILM 470PF 5% 630V	
C95	1-136-433-11	FILM 100PF 5% 630V	
C96	1-163-143-00	CERAMIC CHIP 0.0012uF 5% 50V	
C97	1-136-273-91	FILM 75PF 5% 630V	
C98	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C99	1-164-005-11	CERAMIC CHIP 0.47uF 25V	
< CONNECTOR >			
* CNP31	1-580-782-11	CONNECTOR, BOARD TO BOARD	
* CNP32	1-580-781-11	PIN, CONNECTOR (PC BOARD) 7P	
* CNP33	1-580-782-11	CONNECTOR, BOARD TO BOARD	
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CNP72	1-764-902-11	CONNECTOR, FFC/FPC 4P	
* CNP75	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	

Ref. No.	Part No.	Description	Remark
< DIODE >			
D31	8-719-404-46	DIODE MA110	
< IC >			
IC31	8-759-106-02	IC uPC4570G2	
IC81	8-759-106-56	IC uPC1297CA	
< COIL >			
L81	1-410-780-11	INDUCTOR 27mH	
L91	1-410-780-11	INDUCTOR 27mH	
< TRANSISTOR >			
Q51	8-729-822-05	TRANSISTOR 2SD1622-ST-TD	
Q52	8-729-822-05	TRANSISTOR 2SD1622-ST-TD	
Q53	8-729-822-05	TRANSISTOR 2SD1622-ST-TD	
Q71	8-729-216-22	TRANSISTOR 2SA1162-G	
< RESISTOR >			
R11	1-216-099-00	METAL CHIP 120K 5% 1/10W	
R12	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R13	1-216-100-00	METAL GLAZE 130K 5% 1/10W	
R14	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	
R21	1-216-099-00	METAL CHIP 120K 5% 1/10W	
R22	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R23	1-216-100-00	METAL GLAZE 130K 5% 1/10W	
R24	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	
R31	1-216-033-00	METAL CHIP 220 5% 1/10W	
R32	1-216-033-00	METAL CHIP 220 5% 1/10W	
R33	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R51	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R52	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R53	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R54	1-216-309-00	METAL CHIP 5.6 5% 1/10W	
R55	1-216-309-00	METAL CHIP 5.6 5% 1/10W	
R57	1-216-298-00	METAL CHIP 2.2 5% 1/10W	
R71	1-216-082-00	METAL GLAZE 24K 5% 1/10W	
R72	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R73	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R74	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R81	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R82	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R83	1-216-001-00	METAL CHIP 10 5% 1/10W	
R84	1-216-101-00	METAL CHIP 150K 5% 1/10W	
R85	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R91	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R92	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R93	1-216-001-00	METAL CHIP 10 5% 1/10W	
R94	1-216-101-00	METAL CHIP 150K 5% 1/10W	
R95	1-216-075-00	METAL CHIP 12K 5% 1/10W	

MAIN	DIRECTION	HEADPHONE	PANEL
POWER SWITCH	TRANSFORMER	VOL	

Ref. No.	Part No.	Description	Remark
* CN807	1-568-954-11	PIN, CONNECTOR 5P	
		< CONNECTOR >	
CNP802	1-770-247-11	SOCKET, CONNECTOR 41P	
		< DIODE >	
D101	8-719-933-33	DIODE HZS6A1L	
D201	8-719-933-33	DIODE HZS6A1L	
D521	8-719-987-63	DIODE 1N4148M	
D522	8-719-987-63	DIODE 1N4148M	
D601	8-719-987-63	DIODE 1N4148M (WA7ESA,WE505,WE705S)	
D602	8-719-987-63	DIODE 1N4148M (WA7ESA,WE505,WE705S)	
D701	8-719-024-99	DIODE 11ES2-NTA2B	
D702	8-719-024-99	DIODE 11ES2-NTA2B	
D703	8-719-024-99	DIODE 11ES2-NTA2B	
D704	8-719-024-99	DIODE 11ES2-NTA2B	
D705	8-719-987-63	DIODE 1N4148M	
D706	8-719-987-63	DIODE 1N4148M	
D707	8-719-024-99	DIODE 11ES2-NTA2B	
D708	8-719-987-63	DIODE 1N4148M	
D709	8-719-933-33	DIODE HZS6A1L	
D710	8-719-933-33	DIODE HZS6A1L	
D711	8-719-933-33	DIODE HZS6A1L	
D712	8-719-933-38	DIODE HZS6B3L	
D713	8-719-987-63	DIODE 1N4148M	
D714	8-719-987-63	DIODE 1N4148M	
D715	8-719-987-63	DIODE 1N4148M	
D716	8-719-000-78	DIODE UZL-7L2	
D801	8-719-987-63	DIODE 1N4148M	
D802	8-719-987-63	DIODE 1N4148M	
D803	8-719-987-63	DIODE 1N4148M	
D804	8-719-987-63	DIODE 1N4148M	
D805	8-719-987-63	DIODE 1N4148M (WE605S,WE705S)	
D901	8-719-313-43	LED SEL6210S-TH10 (AUTO REC LEVEL)	
D902	8-719-313-43	LED SEL6210S-TH10 (SYNCHRO)	(WE605S,WE705S)
		< IC >	
IC501	8-752-075-27	IC CXA1878Q	
IC502	8-759-634-51	IC M5218AP	
IC503	8-759-634-51	IC M5218AP	
IC601	8-759-822-38	IC LA6510	
IC701	8-759-634-51	IC M5218AP	
IC801	8-752-871-45	IC CXP82224-043Q	
IC802	8-759-165-82	IC PST600E-T	
IC802	8-759-520-90	IC PST572E	
IC804	8-759-916-14	IC SN74HC04AN	
IC805	8-759-000-48	IC MC14052BCP	
IC901	8-741-810-59	IC SBX1810-59	
		< JACK >	
J501	1-770-614-11	JACK, PIN 4P (LINE IN/OUT)	

Ref. No.	Part No.	Description	Remark
J502	1-568-519-41	JACK, LARGE TYPE (PHONES)	
* J801	1-764-188-11	JACK (SMALL TYPE) (DIA. 3.5) (CONTROL A)	(WE605S,WE705S)
* J802	1-764-188-11	JACK (SMALL TYPE) (DIA. 3.5) (CONTROL A)	(WE605S,WE705S)
		< FILTER >	
LPF101	1-233-271-11	FILTER, LOW PASS	
LPF201	1-233-271-11	FILTER, LOW PASS	
		< TRANSISTOR >	
Q101	8-729-900-74	TRANSISTOR DTC143TS	
Q102	8-729-922-37	TRANSISTOR 2SD2144S	
Q201	8-729-900-74	TRANSISTOR DTC143TS	
Q202	8-729-922-37	TRANSISTOR 2SD2144S	
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q502	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q503	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q601	8-729-900-80	TRANSISTOR DTC114ES	
Q602	8-729-801-93	TRANSISTOR 2SD1387	
Q603	8-729-801-93	TRANSISTOR 2SD1387	
Q604	8-729-900-80	TRANSISTOR DTC114ES (WE505,WE705S)	
Q605	8-729-119-76	TRANSISTOR 2SA1175-HFE (WE505,WE705S)	
Q606	8-729-900-80	TRANSISTOR DTC114ES	
Q701	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q702	8-729-209-15	TRANSISTOR 2SD2012	
Q703	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q704	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q705	8-729-900-80	TRANSISTOR DTC114ES (WA7ESA,WE605S,WR550Z)	
Q706	8-729-900-80	TRANSISTOR DTC114ES (WA7ESA,WE605S,WR550Z)	
Q707	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q708	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q709	8-729-224-62	TRANSISTOR 2SK246-GR (WA7ESA)	
Q801	8-729-900-89	TRANSISTOR DTC144ES	
Q802	8-729-900-74	TRANSISTOR DTC143TS (WA7ESA,WE605S,WR550Z)	
Q803	8-729-620-05	TRANSISTOR 2SC2603-EF (WE605S,WE705S)	
Q804	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q805	8-729-900-61	TRANSISTOR DTA114ES	
Q806	8-729-900-80	TRANSISTOR DTC114ES	
Q807	8-729-900-65	TRANSISTOR DTA144ES (WA7ESA,WE505,WE705S)	
		< RESISTOR >	
R101	1-249-429-11	CARBON 10K	5% 1/4W
R102	1-247-887-00	CARBON 220K	5% 1/4W
R103	1-249-441-11	CARBON 100K	5% 1/4W
R104	1-249-420-11	CARBON 1.8K	5% 1/4W
R105	1-249-423-11	CARBON 3.3K	5% 1/4W

Ref. No.	Part No.	Description	Remark
R106	1-247-842-11	CARBON 3K	5% 1/4W
R107	1-249-417-11	CARBON 1K	5% 1/4W
R108	1-249-424-11	CARBON 3.9K	5% 1/4W
R109	1-249-429-11	CARBON 10K	5% 1/4W
R110	1-249-425-11	CARBON 4.7K	5% 1/4W
R111	1-249-421-11	CARBON 2.2K	5% 1/4W
R112	1-249-430-11	CARBON 12K	5% 1/4W
R113	1-249-417-11	CARBON 1K	5% 1/4W
R114	1-249-421-11	CARBON 2.2K	5% 1/4W
R115	1-249-433-11	CARBON 22K	5% 1/4W
R116	1-249-423-11	CARBON 3.3K	5% 1/4W
R117	1-249-429-11	CARBON 10K	5% 1/4W
R118	1-249-409-11	CARBON 220	5% 1/4W
R119	1-249-417-11	CARBON 1K	5% 1/4W
R120	1-249-437-11	CARBON 47K	5% 1/4W
R121	1-249-437-11	CARBON 47K	5% 1/4W
R201	1-249-429-11	CARBON 10K	5% 1/4W
R202	1-247-887-00	CARBON 220K	5% 1/4W
R203	1-249-441-11	CARBON 100K	5% 1/4W
R204	1-249-420-11	CARBON 1.8K	5% 1/4W
R205	1-249-423-11	CARBON 3.3K	5% 1/4W
R206	1-247-842-11	CARBON 3K	5% 1/4W
R207	1-249-417-11	CARBON 1K	5% 1/4W
R208	1-249-424-11	CARBON 3.9K	5% 1/4W
R209	1-249-429-11	CARBON 10K	5% 1/4W
R210	1-249-425-11	CARBON 4.7K	5% 1/4W
R211	1-249-421-11	CARBON 2.2K	5% 1/4W
R212	1-249-430-11	CARBON 12K	5% 1/4W
R213	1-249-417-11	CARBON 1K	5% 1/4W
R214	1-249-421-11	CARBON 2.2K	5% 1/4W
R215	1-249-433-11	CARBON 22K	5% 1/4W
R216	1-249-423-11	CARBON 3.3K	5% 1/4W (EXCEPT WE505)
R217	1-249-429-11	CARBON 10K	5% 1/4W
R218	1-249-409-11	CARBON 220	5% 1/4W
R219	1-249-417-11	CARBON 1K	5% 1/4W
R220	1-249-437-11	CARBON 47K	5% 1/4W
R221	1-249-437-11	CARBON 47K	5% 1/4W
R501	1-215-455-00	METAL 27K	1% 1/4W
R502	1-215-452-00	METAL 20K	1% 1/4W
R503	1-249-417-11	CARBON 1K	5% 1/4W
R504	1-249-428-11	CARBON 8.2K	5% 1/4W
R505	1-247-903-00	CARBON 1M	5% 1/4W
R507	1-249-429-11	CARBON 10K	5% 1/4W
R508	1-249-413-11	CARBON 470	5% 1/4W
R509	1-249-417-11	CARBON 1K	5% 1/4W
R510	1-249-437-11	CARBON 47K	5% 1/4W
R511	1-249-429-11	CARBON 10K	5% 1/4W
R512	1-249-413-11	CARBON 470	5% 1/4W
R521	1-249-433-11	CARBON 22K	5% 1/4W
R522	1-249-426-11	CARBON 5.6K	5% 1/4W
R523	1-249-436-11	CARBON 39K	5% 1/4W

Ref. No.	Part No.	Description	Remark
R524	1-249-425-11	CARBON 4.7K	5% 1/4W
R525	1-249-425-11	CARBON 4.7K	5% 1/4W
R526	1-249-441-11	CARBON 100K	5% 1/4W
R527	1-249-441-11	CARBON 100K	5% 1/4W
R528	1-247-852-11	CARBON 7.5K	5% 1/4W
R531	1-249-437-11	CARBON 47K	5% 1/4W
R532	1-249-437-11	CARBON 47K	5% 1/4W
R533	1-249-437-11	CARBON 47K	5% 1/4W
R601	1-247-807-31	CARBON 100	5% 1/4W
R602	1-247-807-31	CARBON 100	5% 1/4W
R603	1-249-433-11	CARBON 22K	5% 1/4W
R604	1-249-433-11	CARBON 22K	5% 1/4W
R605	1-249-430-11	CARBON 12K	5% 1/4W
R606	1-249-430-11	CARBON 12K	5% 1/4W
R607	1-247-858-11	CARBON 13K	5% 1/4W
R608	1-247-858-11	CARBON 13K	5% 1/4W
R609	1-247-858-11	CARBON 13K	5% 1/4W
R610	1-247-858-11	CARBON 13K	5% 1/4W
R613	1-249-422-11	CARBON 2.7K	5% 1/4W
R614	1-249-422-11	CARBON 2.7K	5% 1/4W
R615	1-247-854-11	CARBON 9.1K	5% 1/4W
R616	1-247-854-11	CARBON 9.1K	5% 1/4W
R617	1-249-429-11	CARBON 10K	5% 1/4W
R618	1-249-421-11	CARBON 2.2K	5% 1/4W
R619	1-249-429-11	CARBON 10K	5% 1/4W
R620	1-249-421-11	CARBON 2.2K	5% 1/4W
R621	1-249-435-11	CARBON 33K	5% 1/4W (WE505,WE705S)
R622	1-247-848-11	CARBON 5.1K	5% 1/4W (WE505,WE705S)
R623	1-249-437-11	CARBON 47K	5% 1/4W (WE505,WE705S)
R624	1-249-437-11	CARBON 47K	5% 1/4W (WE505,WE705S)
R701	1-249-414-11	CARBON 560	5% 1/4W
R702	1-249-429-11	CARBON 10K	5% 1/4W (WA7ESA,WE605S,WR550Z)
R703	1-249-419-11	CARBON 1.5K	5% 1/4W
R704	1-249-425-11	CARBON 4.7K	5% 1/4W
R705	1-249-427-11	CARBON 6.8K	5% 1/4W
R706	1-249-419-11	CARBON 1.5K	5% 1/4W
R707	1-249-429-11	CARBON 10K	5% 1/4W
R708	1-249-419-11	CARBON 1.5K	5% 1/4W
R709	1-249-425-11	CARBON 4.7K	5% 1/4W
R710	1-249-417-11	CARBON 1K	5% 1/4W
R711	1-249-427-11	CARBON 6.8K	5% 1/4W
R712	1-249-427-11	CARBON 6.8K	5% 1/4W
R713	1-249-417-11	CARBON 1K	5% 1/4W
R714	1-249-429-11	CARBON 10K	5% 1/4W
R715	1-249-422-11	CARBON 2.7K	5% 1/4W
R716	1-249-433-11	CARBON 22K	5% 1/4W
R717	1-249-429-11	CARBON 10K	5% 1/4W

MAIN	DIRECTION	HEADPHONE	PANEL
POWER SWITCH	TRANSFORMER	VOL	

Ref. No.	Part No.	Description	Remark
R718	1-249-436-11	CARBON	39K 5% 1/4W
R719	1-249-430-11	CARBON	12K 5% 1/4W
△ R720	1-219-136-11	FUSIBLE	0.22 10% 1/4W F
R721	1-249-415-11	CARBON	680 5% 1/4W (WA7ESA)
R721	1-249-419-11	CARBON	1.5K 5% 1/4W (EXCEPT WA7ESA)
△ R722	1-219-137-11	FUSIBLE	0.33 10% 1/4W F
△ R723	1-219-137-11	FUSIBLE	0.33 10% 1/4W F
R724	1-249-412-11	CARBON	390 5% 1/4W (WA7ESA)
R805	1-249-429-11	CARBON	10K 5% 1/4W
R806	1-249-429-11	CARBON	10K 5% 1/4W
R807	1-249-429-11	CARBON	10K 5% 1/4W
R808	1-249-429-11	CARBON	10K 5% 1/4W
R809	1-249-441-11	CARBON	100K 5% 1/4W
R810	1-249-417-11	CARBON	1K 5% 1/4W
R811	1-249-433-11	CARBON	22K 5% 1/4W
R812	1-249-433-11	CARBON	22K 5% 1/4W
R813	1-247-807-31	CARBON	100 5% 1/4W
R814	1-249-433-11	CARBON	22K 5% 1/4W
R815	1-249-435-11	CARBON	33K 5% 1/4W
R816	1-249-441-11	CARBON	100K 5% 1/4W
R817	1-249-426-11	CARBON	5.6K 5% 1/4W
R818	1-249-422-11	CARBON	2.7K 5% 1/4W
R819	1-249-428-11	CARBON	8.2K 5% 1/4W
R820	1-249-428-11	CARBON	8.2K 5% 1/4W
R821	1-249-430-11	CARBON	12K 5% 1/4W
R822	1-247-852-11	CARBON	7.5K 5% 1/4W
R823	1-249-425-11	CARBON	4.7K 5% 1/4W
R824	1-249-425-11	CARBON	4.7K 5% 1/4W
R825	1-249-429-11	CARBON	10K 5% 1/4W
R826	1-249-429-11	CARBON	10K 5% 1/4W
R827	1-249-425-11	CARBON	4.7K 5% 1/4W (WE605S,WE705S)
R828	1-249-429-11	CARBON	10K 5% 1/4W (WE605S,WE705S)
R829	1-249-393-11	CARBON	10 5% 1/4W (WE605S,WE705S)
R830	1-249-421-11	CARBON	2.2K 5% 1/4W
R831	1-249-421-11	CARBON	2.2K 5% 1/4W
R832	1-249-434-11	CARBON	27K 5% 1/4W
R833	1-249-434-11	CARBON	27K 5% 1/4W (WA7ESA,WE705S)
R834	1-247-887-00	CARBON	220K 5% 1/4W
R835	1-247-887-00	CARBON	220K 5% 1/4W
R836	1-247-887-00	CARBON	220K 5% 1/4W
R837	1-247-887-00	CARBON	220K 5% 1/4W
R838	1-249-422-11	CARBON	2.7K 5% 1/4W
R839	1-249-422-11	CARBON	2.7K 5% 1/4W
R840	1-249-422-11	CARBON	2.7K 5% 1/4W
R841	1-249-429-11	CARBON	10K 5% 1/4W
R842	1-247-862-11	CARBON	20K 5% 1/4W

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
R844	1-249-421-11	CARBON	2.2K 5% 1/4W
R845	1-247-874-11	CARBON	62K 5% 1/4W
R846	1-247-866-11	CARBON	30K 5% 1/4W
R847	1-249-431-11	CARBON	15K 5% 1/4W
R848	1-247-852-11	CARBON	7.5K 5% 1/4W
R849	1-249-429-11	CARBON	10K 5% 1/4W
R850	1-249-429-11	CARBON	10K 5% 1/4W
R851	1-249-429-11	CARBON	10K 5% 1/4W
R852	1-249-429-11	CARBON	10K 5% 1/4W
R853	1-249-434-11	CARBON	27K 5% 1/4W
R854	1-249-434-11	CARBON	27K 5% 1/4W
R855	1-249-434-11	CARBON	27K 5% 1/4W
R856	1-249-434-11	CARBON	27K 5% 1/4W
R857	1-249-421-11	CARBON	2.2K 5% 1/4W
R858	1-249-421-11	CARBON	2.2K 5% 1/4W
R859	1-249-421-11	CARBON	2.2K 5% 1/4W
R860	1-249-434-11	CARBON	27K 5% 1/4W
R861	1-249-434-11	CARBON	27K 5% 1/4W (WA7ESA,WE705S)
R862	1-249-441-11	CARBON	100K 5% 1/4W
R863	1-247-807-31	CARBON	100 5% 1/4W
R901	1-249-413-11	CARBON	470 5% 1/4W
R902	1-249-413-11	CARBON	470 5% 1/4W (WE605S,WE705S)
R903	1-249-441-11	CARBON	100K 5% 1/4W (WE505,WE705S)
R904	1-247-807-31	CARBON	100 5% 1/4W
R911	1-249-418-11	CARBON	1.2K 5% 1/4W
R912	1-249-420-11	CARBON	1.8K 5% 1/4W
R913	1-249-422-11	CARBON	2.7K 5% 1/4W
R914	1-249-424-11	CARBON	3.9K 5% 1/4W
R915	1-249-427-11	CARBON	6.8K 5% 1/4W
R916	1-249-431-11	CARBON	15K 5% 1/4W
R917	1-249-437-11	CARBON	47K 5% 1/4W
R921	1-249-418-11	CARBON	1.2K 5% 1/4W
R922	1-249-420-11	CARBON	1.8K 5% 1/4W
R923	1-249-422-11	CARBON	2.7K 5% 1/4W
R924	1-249-424-11	CARBON	3.9K 5% 1/4W
R925	1-249-427-11	CARBON	6.8K 5% 1/4W
R926	1-249-431-11	CARBON	15K 5% 1/4W
R927	1-249-437-11	CARBON	47K 5% 1/4W
R931	1-249-418-11	CARBON	1.2K 5% 1/4W
R932	1-249-420-11	CARBON	1.8K 5% 1/4W
R933	1-249-422-11	CARBON	2.7K 5% 1/4W
R934	1-249-424-11	CARBON	3.9K 5% 1/4W (WE605S,WE705S)
R935	1-249-427-11	CARBON	6.8K 5% 1/4W
R936	1-249-431-11	CARBON	15K 5% 1/4W
R937	1-249-437-11	CARBON	47K 5% 1/4W
R939	1-249-424-11	CARBON	3.9K 5% 1/4W (WA7ESA,WE505,WR550Z)
R941	1-249-418-11	CARBON	1.2K 5% 1/4W
R942	1-249-420-11	CARBON	1.8K 5% 1/4W

MAIN	DIRECTION	HEADPHONE	PANEL	POWER SWITCH
TRANSFORMER	VOL	LEAF SW (DECK A)	LEAF SW (DECK B)	

Ref. No.	Part No.	Description	Remark
R943	1-249-422-11	CARBON	2.7K 5% 1/4W
R944	1-249-424-11	CARBON	3.9K 5% 1/4W
R945	1-249-427-11	CARBON	6.8K 5% 1/4W
R946	1-249-431-11	CARBON	15K 5% 1/4W
R947	1-249-437-11	CARBON	47K 5% 1/4W
< VARIABLE RESISTOR >			
RV101	1-241-630-11	RES, ADJ, CARBON 10K (DOLBY LEVEL L)	
RV201	1-241-630-11	RES, ADJ, CARBON 10K (DOLBY LEVEL R)	
RV601	1-241-765-11	RES, ADJ, CARBON 22K (PITCH CONTROL) (WE505,WE705S)	
RV901	1-241-797-11	RES, VAR, CARBON 20K (AUTO REC LEVEL)	
RV902	1-225-173-11	RES, VAR, CARBON 50K (PITCH CONTROL) (WE505,WE705S)	
< SWITCH >			
△ S001	1-762-581-11	SWITCH, AC POWER PUSH (1 KEY) (POWER) (WE505,WE705S)	
S801	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER) (WA7ESA,WE605S,WR550Z)	
S911	1-554-303-21	SWITCH, TACTILE (■ CLEAR)	
S912	1-554-303-21	SWITCH, TACTILE (▷ FRONT)	
S913	1-554-303-21	SWITCH, TACTILE (◁ BACK)	
S914	1-554-303-21	SWITCH, TACTILE (◀◀)	
S915	1-554-303-21	SWITCH, TACTILE (▶▶)	
S916	1-554-303-21	SWITCH, TACTILE (REC)	
S917	1-554-303-21	SWITCH, TACTILE (RESET)	
S918	1-554-303-21	SWITCH, TACTILE (MEMORY)	
S921	1-554-303-21	SWITCH, TACTILE (■)	
S922	1-554-303-21	SWITCH, TACTILE (PAUSE)	
S923	1-554-303-21	SWITCH, TACTILE (▷)	
S924	1-554-303-21	SWITCH, TACTILE (◁)	
S925	1-554-303-21	SWITCH, TACTILE (REC MUTE)	
S926	1-554-303-21	SWITCH, TACTILE (◀◀ /-RMS+)	
S927	1-554-303-21	SWITCH, TACTILE (▶▶ /-RMS+)	
S928	1-554-118-00	SWITCH, PUSH (1 KEY)(PITCH CONTROL) (WE505,WE705S)	
S931	1-554-303-21	SWITCH, TACTILE (RESET)	
S932	1-554-303-21	SWITCH, TACTILE (MEMORY)	
S933	1-554-303-21	SWITCH, TACTILE (FADER) (WE605S,WE705S)	
S934	1-554-303-21	SWITCH, TACTILE (ARL) (WE605S,WE705S)	
S935	1-554-303-21	SWITCH, TACTILE (SYNCHRO) (WE605S,WE705S)	
S935	1-554-303-21	SWITCH, TACTILE (ARL) (WA7ESA,WE505,WR505Z)	
S936	1-762-567-11	SWITCH, SLIDE (DOLBY NR)	
S937	1-762-609-11	SWITCH, SLIDE (DOLBY NR) (EXCEPT WE505)	
S937	1-762-608-11	SWITCH, SLIDE (DOLBY NR) (WE505)	
S938	1-554-303-21	SWITCH, TACTILE (FADER) (WA7ESA,WE505,WR550Z)	
S941	1-554-303-21	SWITCH, TACTILE (DISPLAY/START)	

Ref. No.	Part No.	Description	Remark
S942	1-554-303-21	SWITCH, TACTILE (RMS/START)	
S943	1-554-303-21	SWITCH, TACTILE (CHECK)	
S944	1-554-303-21	SWITCH, TACTILE (SET)	
S945	1-554-303-21	SWITCH, TACTILE (AUTO CAL/START)	
S946	1-554-303-21	SWITCH, TACTILE (HIGH/NORMAL)	
S947	1-762-609-11	SWITCH, SLIDE (DIRECTION MODE)	
< TEST PIN >			
* TP801	1-560-060-00	PIN, CONNECTOR 2P	
< INDICATOR TUBE >			
VFD901	1-517-263-11	INDICATOR TUBE, FLUORESCENT	
< VIBRATOR >			
X801	1-579-175-11	VIBRATOR, CERAMIC (10MHZ)	

*	1-634-841-14	LEAF SW BOARD (DECK A) (WA7ESA,WE705S)	
*	1-638-020-11	LEAF SW BOARD (DECK A) (WE505,WE605S,WR550Z)	

< CONNECTOR >			
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P (WE505,WE605S,WR550Z)	
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P (WA7ESA,WE705S)	
< IC >			
IC81	8-749-924-10	IC NJL5165K-B (H1)	
IC82	8-749-924-10	IC NJL5165K-B (H1) (WA7ESA,WE705S)	
< RESISTOR >			
R84	1-249-417-11	CARBON	1K 5% 1/4W
R85	1-249-408-11	CARBON	180 5% 1/4W
R86	1-249-408-11	CARBON	180 5% 1/4W (WA7ESA,WE705S)
< SWITCH >			
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP)	
S82	1-571-281-21	SWITCH, LEAF (CrO2)	
S86	1-571-281-21	SWITCH, LEAF (HALF)	

*	1-634-841-14	LEAF SW BOARD (DECK B) (WA7ESA,WE705S)	
*	1-638-020-11	LEAF SW BOARD (DECK B) (WE505,WE605S,WR550Z)	

< CONNECTOR >			
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P (WE505,WE605S,WR550Z)	

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LEAF SW (DECK B)

Ref. No.	Part No.	Description	Remark
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P (WA7ESA,WE705S)	
		< IC >	
IC81	8-749-924-10	IC NJL5165K-B (H1)	
IC82	8-749-924-10	IC NJL5165K-B (H1) (WA7ESA,WE705S)	
		< RESISTOR >	
R81	1-249-414-11	CARBON 560 5% 1/4W	
R82	1-247-818-11	CARBON 300 5% 1/4W	
R83	1-247-834-11	CARBON 1.3K 5% 1/4W	
R84	1-249-417-11	CARBON 1K 5% 1/4W	
R85	1-249-408-11	CARBON 180 5% 1/4W	
R86	1-249-408-11	CARBON 180 5% 1/4W (WA7ESA,WE705S)	
		< SWITCH >	
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP)	
S82	1-571-281-21	SWITCH, LEAF (CrO2)	
S83	1-571-281-21	SWITCH, LEAF (METAL)	
S84	1-571-281-21	SWITCH, LEAF (ERASER PROOF (SIDE A))	
S85	1-571-281-21	SWITCH, LEAF (ERASER PROOF (SIDE A))	
S86	1-571-281-21	SWITCH, LEAF (HALF)	

		MISCELLANEOUS	

△ 9	1-551-188-99	CORD, POWER (E)	
△ 9	1-558-945-21	CORD, POWER (POLAR.SPT-1) (US,CND,PA)	
△ 9	1-575-651-21	CORD, POWER (AEP,G,MY,SP,CH)	
△ 9	1-696-586-11	CORD, POWER (UK)	
△ 9	1-696-845-11	CORD, POWER (AUS)	
△ 10	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
△ 10	1-569-008-21	ADAPTER, CONVERSION 2P (CH)	
65	1-769-882-11	WIRE (FLAT TYPE) (7 CORE) (WE505,WE605S,WR550Z)	
65	1-769-912-11	WIRE (FLAT TYPE) (9 CORE) (WA7ESA,WE705S)	
74	1-769-598-11	WIRE (FLAT TYPE) (41 CORE)	
121	1-638-983-11	MOTOR FLEXIBLE BOARD	
HP101	A-2004-526-A	DECK ASSY, HEAD (PLAYBACK) (WE505,WE605S,WR550Z)	
HP101	A-2004-548-A	DECK ASSY, HEAD (PLAYBACK) (WA7ESA,WE705S)	
HRPE101A-2004-527-A		DECK ASSY, HEAD (RECORD/PLAYBACK/ERASE)	
M1	X-3365-377-2	MOTOR ASSY (CAPSTAN)	
M2	X-3365-501-2	MOTOR ASSY (REEL)	
△ S701	1-692-155-11	SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR) (E)	

Ref. No.	Part No.	Description	Remark
△ T801	1-427-782-11	TRANSFORMER, POWER (US,CND,PA)	
△ T801	1-427-783-11	TRANSFORMER, POWER (AEP,UK,G,AUS,MY,SP,CH)	
△ T801	1-427-784-11	TRANSFORMER, POWER (E)	

		ACCESSORIES & PACKING MATERIALS	

	1-473-598-11	REMOTE COMMANDER (RM-J910) (WA7ESA:CND)	
△	1-551-734-11	CORD, CONNECTION	
△	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
△	1-569-008-21	ADAPTER, CONVERSION 2P (CH)	
	3-798-411-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/SPANISH/PORTUGUESE) (AEP)	
	3-798-411-21	MANUAL, INSTRUCTION (ENGLISH) (UK)	
	3-798-411-41	MANUAL, INSTRUCTION (GERMAN/DUTCH/SWEDISH/ITALIAN) (AEP)	
	3-798-411-51	MANUAL, INSTRUCTION (GERMAN) (G)	
	3-810-716-11	MANUAL, INSTRUCTION (ENGLISH) (US,CND,AUS,PA)	
	3-810-716-21	MANUAL, INSTRUCTION (FRENCH) (CND)	
	3-810-716-61	MANUAL, INSTRUCTION (ENGLISH/FRENCH/SPANISH/CHINESE) (E,MY,SP,CH)	
	3-810-765-11	MANUAL(CONTROL-A1),INSTRUCTION (ENGLISH) (WE605S:US,AUS,PA)	
	3-810-765-21	MANUAL(CONTROL-A1),INSTRUCTION (ENGLISH/FRENCH/SPANISH/GERMAN/DUTCH/SWEDISH/ITALIAN/PORTUGUESE/CHINESE) (WE605S:CND,E,MY,SP,CH)	
*	3-932-083-01	CUSHION (EXCEPT WA7ESA)	
*	3-934-283-01	CARTON, INDIVIDUAL (WE505)	
*	3-934-284-01	CARTON, INDIVIDUAL (WE605S:US,CND,E,AUS,PA)	
*	3-936-086-01	CUSHION (WA7ESA)	
*	3-934-285-01	CARTON, INDIVIDUAL (WE705S)	
*	3-934-287-01	CARTON, INDIVIDUAL (WA7ESA)	
*	3-935-092-01	INDIVIDUAL CARTON-(WE605S:MY,SP,CH)	
*	3-935-644-01	INDIVIDUAL CARTON (WR550Z)	
	4-981-643-01	COVER BATTERY (FOR RM-J910) (WA7ESA:CND)	

Ref. No.	Part No.	Description	Remark

HARDWARE LIST			

#1	7-682-548-04	SCREW +BVTT 3X8 (S)	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#4	7-685-134-19	SCREW (+ PTPWH) (2.6X8)	
#5	7-621-773-95	SCREW +BVTT 2.6X6 (S)	
#6	7-621-775-00	SCREW +B 2.6X3	
#7	7-627-556-08	SCREW +P 2.6X2.8	

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